

**Bulgarian
Geophysical
Society**



**Bulgarian
Geological
Society**



GEOSCIENSES 2006

*National Conference
with international participation*

*Sofia, November 30 — December 1, 2006
National Palace of Culture*



PROGRAM

ORGANISING COMMITTEE:

Honourable Chairmen:

Academician Todor Nikolov Academician Ljudmil Christoskov

Chairmen:

Stefan Shanov Strashimir Strashimirov
President of BgGS President of BGS

Scientific commission:

Eugenia Tarassova — CLMC, BAS (Secretary)	Yotzo Yanev — Geological Institute, BAS
Alexander Tsvetkov — UMG “St. Ivan Rilski”	Radoslav Nakov — Geological Institute, BAS
Emil Botev — Geophysical Institute, BAS	Stefan Dimovski — UMG “St. Ivan Rilski”
Filip Machev — SU “St. Kliment Ochridski”	Denitsa Borisova — STIL, BAS

Treasurers:

Nikola Krastev — Milveks Ltd Boris Valchev — UMG “St. Ivan Rilski”

Technical commission:

Veselka Radeva — Oil and Gas, AD	Sonya Dimitrova — Geophysical Institute, BAS
Iskra Piroeva — CLMC, BAS	Zlatka Milakovska — Geological Institute, BAS

Program

Thursday, November 30, 2006

Hall 10

08³⁰ – 09³⁰ **Registration**

09³⁰ – 10¹⁰ **Opening Ceremony**

Welcome to **GEOSCIENCES 2006**:

Strashimir Strashimirov, President of the Bulgarian Geological Society;
Stefan Shanov, President of the Bulgarian Geophysical Society;

Address by Official Representative of the EAGE

PLENARY SESSION

Chairman: Christo Dabovski

10¹⁰ – 10⁴⁰ *Todor Nikolov*: Astronomic and orbital impacts on the geological chronicle

10⁴⁰ – 11¹⁰ *Lyudmil Hristoskov, Dimcho Solakov, Stefan Shanov, Marin Kostov*: Perspectives and peculiarities of Seismic Hazard Maps elaboration as a basis for harmonization of the Bulgarian Seismic Building Code with the Europeans standards

11¹⁰ – 11³⁰ *Ivan Zagorchev*: International Year of the Planet Earth (2008) and the Triennium of Geosciences (2007–2009)

11³⁰ – 11⁵⁰ *Coffee break*

SCIENTIFIC SESSIONS

PALEONTOLOGY, STRATIGRAPHY AND SEDIMENTOLOGY

Chairman: Slavcho Yanev

11⁵⁰ – 12¹⁰ *Valeri Sachanski, Necdet Özgül, Esen Arpat*: The graptolite species *Hunnegraptus copiosus* Lindholm, 1991 from the Lower Ordovician of Central Taurus, Turkey

12¹⁰ – 12³⁰ *Docho Dochev*: New biostratigraphic data based on inoceramid bivalves from the interval Upper Turonian – Coniacian in Breznik, West Srednogorie Mountains, Bulgaria

12³⁰ – 12⁵⁰ *Ivan Zagorchev, Kiril Budurov*: Geological features of the transgressive part of the peri-Tethyan Triassic type in Bulgaria

13⁰⁰ – 14⁰⁰ ***Lunch break***

PETROLOGY AND GEOCHEMISTRY

Chairman: Todor Marinov

14⁰⁰ – 14²⁰ *Albrecht von Quadt, Stoyan Sarov, Irena Peytcheva, Emilia Voinova, Nikolay Petrov, Kamelia Nedkova, Kalin Naydenov*: Metamorphic rocks from northern parts of Central Rhodopes – conventional and in situ U-Pb zircon dating, isotope tracing and correlations

14²⁰ – 14⁴⁰ *Borislav K. Kamenov*: The Velikovets pluton in Strandja Mountains – new petrological data

14⁴⁰ – 15⁰⁰ *Evgenia Kozhoukharova*: Eclogitization in crust condition on the example of the Rhodope massif

15⁰⁰ – 15²⁰ *Emilia Raeva, Kalin Naydenov, Neven Georgiev, Zlatka Cherneva*: Chemical composition of the rock forming minerals and ductile deformation in Smilyan granite, southeastern part of the Central Rhodopes, Bulgaria

15²⁰ – 15⁴⁰ *Zlatka Cherneva, Maria Ovtcharova, Dimo Dimov, Albrecht von Quadt*: “Baby-granites” in migmatites from Chepinska river valley, Western Rhodope – geochemistry and U-Pb isotope dating on monazite and zircon

15⁴⁰ – 16⁰⁰ *Irena Peytcheva, Albrecht von Quadt, Ognyan Malinov, Elena Tacheva, Rossen Nedialkov*: Petrochan and Klissura plutons in Western Balkan: relationships, in situ and single grain U-Pb zircon/monazite dating and isotope tracing

16⁰⁰ – 16²⁰ ***Coffee break***

PETROLOGY AND GEOCHEMISTRY

Chairman: Vassil Arnaudov

16²⁰ – 16⁴⁰ *Yotzo Yanev, Blazo Boev, Carlo Doglioni, Fabrizio Innocenti, Piero Manetti, Zoltan Pecskay, Sonia Tonarini, Massimo D’Orazio*: Late alpine ultra- to high potassic volcanic rocks in Republic of Macedonia: mineralogy, geochemistry, and age

16⁴⁰ – 17⁰⁰ *Lora Bidzhova, Rosen Nedialkov*: Amphiboles from the Plana pluton, Bulgaria

- 17⁰⁰ – 17²⁰ *Lubomira Macheva, Irena Peytcheva, Albrecht von Quadt, Nikola Zidarov, Evgenia Tarassova*: Petrological, geochemical and isotope features of Lozen metagranite, Belasitza Mountain – evidence for widespread distribution of Ordovician metagranitoids in the Serbo-Macedonian Massif, SW Bulgaria
- 17²⁰ – 17⁴⁰ *Nikolay Bonev, Kaloyan Peychev, Diana Nizamova*: MOR- vs. SSZ-origin of metamafic rocks in the upper high-grade basement unit of the Eastern Rhodope: geochemical diversity and tectonic significance
- 17⁴⁰ – 18⁰⁰ *Raya Raicheva, Peter Marchev*: Role of magma mixing in the petrogenesis of the volcanic rocks from Zvezdel palaeovolcano
- 18⁰⁰ – 18²⁰ *Philip Machev, Borjana Borisova, Lutz Hecht*: Metaeclogites from the Sredna Gora terrain – petrological features and P-T path of evolution

MINERALOGY

Chairman: Mihail Tarassov

- 11⁵⁰ – 12¹⁰ *Irina Marinova*: Preliminary data on the morphology of electrum from the layer-like pervasive silicification in Stenata outcrop, Khan Krum gold deposit, SE Bulgaria
- 12¹⁰ – 12³⁰ *Rossen Nedialkov, Aneta Zartova, François Bussy, Robert Moritz*: Sulfide inclusions in minerals from volcanic rocks of the Panagurishte ore region, Bulgaria
- 12³⁰ – 12⁵⁰ *Rositsa Ivanova, Yotzo Yanev*: An XRD study of the clay minerals from the altered Borovitza caldera ignimbrites (Eastern Rhodopes)
- 13⁰⁰ – 14⁰⁰ **Lunch break**

SEISMOLOGY AND PHYSICS OF THE EARTH'S INTERIOR

Chairman: Emil Botev

- 14⁰⁰ – 14²⁰ *Emil Botev, Rumiana Glavcheva, Blagovesta Babachkova, Silvia Velichkova, Irena Tzoncheva, Konstantina Donkova, Sonya Dimitrova*: Seismicity patterns in Bulgarian area and adjacent lands recorded by NOTSSI in 2001-2005
- 14²⁰ – 14⁴⁰ *Rumiana Glavcheva, Nikolai Dobrev, Kiril Hadjiiski, Sonya Dimitrova, Boyko Rangelov*: The 2006 seismic activation in the Eastern Rhodopes (Mts) – Kurdjali area and some generalization on geological features in the region
- 14⁴⁰ – 15⁰⁰ *Dessislava Milusheva, Boyko Rangelov*: Tsunamigenic potential of the strong earthquakes near Sumatra (26/12/2004 and 28/03/2005)
- 15⁰⁰ – 15²⁰ *Stela Simeonova, Irena Aleksandrova, Dimcho Solakov, Iliana Popova, Gergana Georgieva*: Observed macroseismic effects from intermediate Vrancea, Romania earthquakes (1940, 1977) on the territory of the town of Rousse
- 15²⁰ – 15⁴⁰ *Senka Christova, Naoshi Hirata, Aitaro Kato*: Contemporary stress field in the Wadati-Benioff zone beneath North Honshu and the Hokkaido corner by inversion of earthquake focal mechanisms – evidences for 3-planar distribution of the stresses

15⁴⁰ – 16⁰⁰ *Cenka Christova, Naoshi Hirata, Aitaro Kato*: Contemporary stress field in the Hokkaido Wadati-Benioff zone by inversion of earthquake focal mechanisms – evidence for tearing of the subducting slab

16⁰⁰ – 16²⁰ ***Coffee break***

SEISMOLOGY AND PHYSICS OF THE EARTH'S INTERIOR

Chairman: Dimo Solakov

16²⁰ – 16⁴⁰ *Lilia Dimitrova, Svetlana Nikolova, Dimcho Solakov*: Modernization of the local seismological network in Provadia

16⁴⁰ – 17⁰⁰ *Svetlana Nikolova, Dimcho Solakov, Nikolai Miloshev*: Advanced seismological digital network in Bulgaria

17⁰⁰ – 17²⁰ *Dimo Solakov, Stela Simeonova*: Earthquake scenarios for the city of Sofia

17²⁰ – 17⁴⁰ *Alexander Gorshkov, Giuliano Panza, Alexander Soloviev*: Seismogenic nodes within mountain belts of Southern Europe

17⁴⁰ – 18⁰⁰ *Dimitar St. Dimitrov, Ivan Georgiev*: Geodetic Monitoring of Seismogenic Zones – Experience and Achievements of the Central Laboratory of Geodesy, Bulgarian Academy of Sciences

18⁰⁰ – 18²⁰ *Dimitar St. Dimitrov, Jean-Bernard De Chabaliere, Jean-Claude Ruegg, Emil Botev*: The 14 and 18 April 1928 Chirpan-Plovdiv Earthquakes – fault model from geodetic and seismic data

PALEONTOLOGY, STRATIGRAPHY AND SEDIMENTOLOGY

Chairman: Marin Ivanov

- 09⁰⁰ – 09²⁰ *Atanas Vassilev, Emil Botev, Raina Hristova*: Dvurechenskii Mud Volcano – age and temporal variable activity from earthquakes, tsunamis and geological samples
- 09²⁰ – 09⁴⁰ *Yordan Evlogiev*: Stratigraphic correlation of Quaternary aeolian and Black Sea deposits
- 09⁴⁰ – 10⁰⁰ *Kristalina Stoykova, Marin Ivanov*: A complete section of the Paleocene Series near Byala, East Bulgaria – nannofossil data
- 10⁰⁰ – 10²⁰ *Mariana Filipova-Marinova*: Quaternary palynostratigraphy of the Western Black Sea area
- 10²⁰ – 10⁴⁰ *Marlena Yaneva, Maria Lazarova*: Sedimentological and palinological data about young sediments from the Chirpan – Cherna Gora district
- 10⁴⁰ – 11⁰⁰ ***Coffee break***

MINERAL RESOURCES

Chairman: Veselin Kovachev

- 11⁰⁰ – 11²⁰ *Boris Kolkovski, Vladimir Georgiev*: Late Alpine metallogeny of Western and Central Rhodopes
- 11²⁰ – 11⁴⁰ *Valcana Stoyanova, Ryszard Kotlinski*: Mineral resources of the international seabed area: modern challenges of their exploration
- 11⁴⁰ – 12⁰⁰ *Ivan D. Ivanov*: Metal resources of the northern Appalachians. Geological position, prospecting methods and organization of the geological work
- 12⁰⁰ – 12²⁰ *Oleg Vitov*: Mineralogical study and dividing of Pernik administrative district, Western Bulgaria, based on stream-sediment surveys
- 12²⁰ – 12⁴⁰ *Todor Serafimovski, Goran Tasev*: Sulfur isotope study of sulfides from some mineral deposits from the Lece-Chalkidiki metallogenic zone
- 13⁰⁰ – 14⁰⁰ ***Lunch break***

GEOTECTONIC AND STRUCTURAL GEOLOGY

Chairman: Jordan Malyakov

- 14⁰⁰ – 14²⁰ *Alexander Radulov, Carlos Sanz de Galdeano, Marlena Yaneva, Jose Miguel Azanon, Jesus Galindo-Zaldivar, Stefan Shanov: Quaternary faulting in Granada Basin, Southern Spain*
- 14²⁰ – 14⁴⁰ *Carlos Sanz de Galdeano, Stefan Shanov, Jesús Galindo-Zaldívar, Alexander Radulov, Gabriel Nikolov: Neotectonics in the Tabernas Desert (Almeria, Betic Cordillera, Spain)*
- 14⁴⁰ – 15⁰⁰ *Irene Zananiri, Sarantis Dimitriadis, Despina Kondopoulou, Adamantios Kilias: Geotectonic evolution of the Hellenic Rhodope Massif as inferred from magnetic fabric studies in the Vrontou and Symvolon plutons*
- 15⁰⁰ – 15²⁰ *Mitko Paskalev: Alpine nappe tectonic in the Eastern Balkan region*
- 15²⁰ – 15⁴⁰ *Neven Georgiev, Ianko Gerdjikov, Julia Statelova: Ductile to brittle-ductile shear zones from the Pre-Mesozoic basement of Tvarditsa Stara Planina area: preliminary field and mesostructural data*
- 15⁴⁰ – 16⁰⁰ *Orlin Dimitrov: Neotectonic interpretation of seismostratigraphic date from the outer part of the South Bulgarian shelf*
- 16⁰⁰ – 16²⁰ *Ianko Gerdjikov, Piere Gautier, Zlatka Cherneva, Gilles Ruffet: The northwestern segment of the North Rhodopean extensional system and related fabrics in the Rila-Rhodopean batholith*
- 16²⁰ – 16⁴⁰ ***Coffee break***
- 16⁴⁰ – 18⁰⁰ Presentation of companies

MODERN GEODYNAMICS

Chairman: Dimitar Dimitrov

- 09⁰⁰ – 09²⁰ *Ivan Georgiev, Dimitar Dimitrov, Lyubka Pashova, Todor Belijashki, Stefan Shanov, Gabriel Nikolov, Georgi Marinov*: Geodetic monitoring of the recent crustal movements in Southwestern Bulgaria
- 09²⁰ – 09⁴⁰ *Ivan Georgiev, Dimitar Dimitrov, Lyubka Pashova, Maya Ilieva, Stefan Shanov, Gabriel Nikolov*: Geodynamic study in the region south of Sofia by GPS
- 09⁴⁰ – 10⁰⁰ *Tsenko Tsenkov, Ivan Georgiev, Lyubka Pashova, Ivaylo Radev, Dimitar Georgiev*: Monitoring of landslide processes in the region of the Botanical garden of BAC, Sofia
- 10⁰⁰ – 10²⁰ *Ivan Georgiev, Dimitar Dimitrov, Lyubka Pashova, Emil Botev, Stefan Shanov, Gabriel Nikolov, Krassimir Matev*: Results from geodynamic studies in the Krupnik-Kresna region for the period 2002-2005
- 10²⁰ – 10⁴⁰ *Lyubka Pashova*: Comparison of digital elevation models over Southwestern Bulgaria
- 10⁴⁰ – 11⁰⁰ **Coffee break**

APPLIED GEOPHYSICS

Chairman: Alexander Tsvetkov

- 11⁰⁰ – 11²⁰ *Zheljo Zhelev, Totka Petrova, Fuensanta Montesinos, Ricardo Vieira, Antonio Camacho*: New results of the analysis of the Alcala de Ebro Village (Zaragoza, Spain) gravity anomaly with a set of point sources
- 11²⁰ – 11⁴⁰ *Boyka Mihaylova, Asen Mitev, Aleksey Benderev, Stefan Shanov*: Hydrogeological and geophysical investigations for localization of the river recharge of the ground waters of the Bosnek Karst Region
- 11⁴⁰ – 12⁰⁰ *Lyuben Gugov*: The thermal inertia of rocks in Eastern Rhodopes
- 12⁰⁰ – 12²⁰ *Stefan Dimovski, Radi Radichev, Georgi Zashev*: Surface correlation between fault tectonics and data from airborne gamma-ray spectrometry for the region of Assarel – Central Srednogorie
- 12²⁰ – 12⁴⁰ *Irene Zananiri, Tzortzeta Memou, Gerasimos Lachanas*: Vertical Electrical Sounding (VES) survey at the central part of Kos Island, Aegean, Greece
- 12⁴⁰ – 13⁰⁰ *Milena Cukavac, Dragana Jovanovic, Ivana Vasiljevic, Nataša Gerzina*: Geophysical investigations on regional geology profiles in the West Serbia Region

13⁰⁰ – 14⁰⁰ **Lunch break**

GRAVIMETRY AND GEOMAGNETISM

Chairman: Stefan Dimovski

14⁰⁰ – 14²⁰ *Petya Trifonova, Zheljo Zhelev, Totka Petrova*: Estimation of Curie point depths of the Moesian platform using geomagnetic data interpretation

14²⁰ – 14⁴⁰ *Zheljo Zhelev, Totka Petrova, Vladimir Stanchev, Dimo Dimov*: Some new results of the analysis of the Livingston magnetic anomalies with elementary sources

14⁴⁰ – 15⁰⁰ *Radi Radichev, Stefan Dimovski, Milena Tangalova*: Magnetic susceptibility distribution in non-uniform media

15⁰⁰ – 15²⁰ *Emil Mihailov, Dimitar Dimitrov, Lyubomir Stoyanov, Michelle Everaerts*: Results from Gravimetric Investigations in the Southern Zone of the Sofia Kettle

15²⁰ – 15⁴⁰ *Georgi Milev, Georgi Valev, Keranka Vassileva*: The new absolute gravity stations in Bulgaria and integration of the basic gravity network of the country to their system

ENVIRONMENT AND NATURAL HAZARDS

Chairman: Nikolay Dobrev

15⁴⁰ – 16⁰⁰ *Vassilka Mladenova, Tsvetan Kotsev, Zornitza Cholakova, Ralf-Thomas Schmitt, Irena Ivanova*: Environmental impact of the Golyam Bukovets tailings pond on the soils, plants and some elements of the food chain, Chiprovtsi mining area, NW Bulgaria

16⁰⁰ – 16²⁰ *Veliko Dachev, Veselin Peychev*: Assessment of the effects of marine construction on hazardous regions of the Bulgarian Black Sea coast

16²⁰ – 16⁴⁰ **Coffee break**

16⁴⁰ – 17⁰⁰ *Dan Secrieru, Marian Traian Gomoiu, Gheorghe Oaie*: Marine environmental assessment of the northwestern Black Sea area

17⁰⁰ – 17²⁰ *Dimcho Evstatiev, Vanushka Petrova*: On the effect of groundwater level on landslide activation

17²⁰ – 17⁴⁰ *Dimitar Antonov*: Structural and strength characteristics of the stabilized soil potential screens

17⁴⁰ – 18⁰⁰ *Dobromir Grozdev*: Wind wave climate along the Bulgarian Black Sea coast

18⁰⁰ – 18²⁰ *Mariana Nedelcheva, Petko Slavov*: Stabilization of a deformed road section using lime piles

POSTER SESSION

Foyer facing hall 3–2

Discussion: 17⁵⁰ – 18³⁰

Conveners: Slatka Milakovska, Denitsa Borisova

MINERALOGY

Valentin Ganev, Lubomira Macheva: Crystal chemical and structural peculiarities of staurolite from rocks undergone different metamorphic evolution: FTIR spectroscopy study

Zdravko Tsintsov: The Archaeomineralogy – independent interdisciplinary direction in the archaeometry and the Bulgarian science

Ioannis Marantos, Constantine Michael, George Kosharis: Study of the zeolitic alteration in Petrota Tertiary volcanoclastic rocks, Thrace area, NE Greece

Ljudmil Bozadjiev, Georgi Georgiev, Dimitar Parashkevov: Synthesis of perovskites and perovskite based technical stones

Ludmil Bozadjiev, Todorka Dimova, Mihail Doynov: Solid solutions in the system jacobcrite $MnFe_2O_4$ – franklinite $ZnFe_2O_4$

Konstans Baleva-Ivanova, Mariana Ivanova: Modern trends, actual problems and prospects to the development of the biomineralogy in the XXI century

Margarita Vassileva, Kalin Ruskov: Mineralogical features of Ca-phyllosilicate (rancieite) from the Kremikovtsi deposit

Natalya Piskunova: Kinetics of crystal growth from solution by atomic force microscopy data

Pavle Tancic, Maja Poznanovic, Srebrenka Petrovic: New occurrence of gypsum in Belgrade city (Serbia)

PETROLOGY AND GEOCHEMISTRY

Elena Tacheva, Rossen Nedialkov, Irena Peytcheva: Magma mingling and mixing in Petrochan pluton (Western Balkan): preliminary field, petrological and geochemical evidence

Momchil Dyulgerov, Irena Peytcheva, Albrecht von Quadt, Rossen Nedialkov: Source and age heterogeneities between the rocks of Lutzkan pluton

Peter Marchev, Albrecht von Quadt, Irena Peytcheva, Maria Ovtcharova: The age and origin of the Chuchuliga and Rozino granites, Eastern Rhodopes

Svetoslav Georgiev, Albrecht von Quadt, Irena Peytcheva, Peter Marchev, Christoph Heinrich: Eastern Srednogorie zone – new geochemical data for lateral zonation of magmatism

Stela Atanasova-Vladimirova, Iskra Piroeva, Kalin Kouzmanov, Bojidar Mavrudchiev: Amphiboles from the Vitosha pluton as indicators of magmatic evolution

Julia Statelova: Variscan high-grade metamorphic rocks in Lazovo complex, Central Stara Planina Mountain

ENVIRONMENT AND NATURAL HAZARDS

Gheorghe Oaie, Dan Secrieru, Antoneta Seghedi, Dumitru Ioane, Mihai Diaconescu: Preliminary assessment of the tsunami hazard for the Romanian Black Sea area: historical and paleotsunami data

Denitsa Borisova, Hristo Nikolov, Miroslav Danov, Vichko Tsanev, Margarita Tokmakchieva, Banush Banushev: Combined use of multispectral and thermal data for assessing iron distribution in mine areas

Dimitrina Dimitrova, Nikolaya Velitchkova, Tsvetan Kotsev, Dimitar Antonov, Zornitsa Cholakova: Heavy metals and metalloids content assessment in mine waters from Martinovo and Chiprovtsi mines, Northwestern Bulgaria

Margarita Matova, Shyqyri Aliaj: Geological hazard for several cultural monuments in Albania and Bulgaria

Vojin Gordanic, Aleksandra Ciric, Dragan Jovanovic, Milka Vidovic: Hydrogeochemical characteristics of waters in connection with natural radioactivity of volcanoclastic sediments and metamorphic complex in the part of South Serbia – geoeological status

PALEONTOLOGY, STRATIGRAPHY AND SEDIMENTOLOGY

Alberto Venturati: Twin and bilobated chambered Cretaceous planktonic foraminifera: abnormal forms induced by high paleoenvironmental stress?

Alberto Venturati: Benthic foraminiferal response to the K/T boundary event: inferences from the Elles section (Tunisia)

George Ajdanlijsky, Svetlozar Bakardziev: Modeling of fluvial sedimentation through the application of Markov-chain processes

GEOTECTONIC AND STRUCTURAL GEOLOGY

Alexander Radulov, Kris Vanneste, Koen Verbeeck, Marlena Yaneva, Toon Petermans, Thierry Camelbeeck, Stefan Shanov: Paleoearthquake correlation in three trenches along Orizovo – Chirpan active fault segment

Vladimir Georgiev: Tertiary domes and depressions in the Rhodope massif

Kalin Naydenov, Emilia Voynova, Nikolay Petrov, Iliana Georgieva, Dobrin Nikolov, Krastina Kolcheva, Stoyan Sarov: Ductile shear zone between Bachkovo-Dobralak orthogneisses and their parametamorphic rim

Stoyan Sarov, Nikolay Petrov, Emilia Voynova, Kamelia Nedkova, Kalin Naydenov, Iliana Georgieva, Dobrin Nikolov, Krastina Kolcheva: Data on strike-slip shearings in the low grade metamorphic section (Thracian unit) in the northern part of the Central Rhodopes

MINERAL RESOURCES

Atanas Vassilev, Emanuil Kojuharov, Jean-Paul Foucher, Gilles Lericolais, Jeffrey Poort, Jean Klerkx, Mark De Batist: Shared optimistic-pessimistic model of the Black Sea gas hydrates

Oleg Vitov, Irina Marinova, Ivan Dimitrov: Project “Mercury pollutions and mercury mineralizations in Bulgaria”

Thomas Kerestedjian, Fernando Gervilla, Jose-Maria González-Jiménez, Joaquin Proenza: New data on chromitites from Dobromirski, Eastern Rhodopes

Cocktail – Friday, December 1, 2006, 19³⁰ h. – Club-restaurant “Yaiceto” – Sofia University “St. Kliment Ohridski”

ASSAREL MEDET-JSC



Direct Petroleum Bulgaria Ltd.



REXIMseis Ltd.



Sofia University
"St. Kliment Ohridski"



Melrose Resources plc



Melrose Resources SARM and Petreco Bulgaria EOOD are 100 % owned by Melrose Resources Plc, a UK company, listed on the London Stock Exchange.

The Concession for development and production of natural gas from the Galata Gas Field, Offshore, Bulgaria, was granted in 2001 with production starting on the 5th June 2004. The development of the gas field includes construction of a production platform, offshore and underground gas pipeline with total length of 83 km, compressor station and measuring equipment with an investment to date of over \$120 million. Galata presently provides 16% of Bulgaria's natural gas needs.

In addition to the Production Concession, Melrose Resources SARM is also a Permit Holder of Petroleum Prospecting and Exploration Permits offshore Bulgaria. The company performs extensive exploration activities including acquisition and processing of seismic data, as well as exploration drilling with the aim to find new discoveries and to increase local production.