



## 19-ти конгрес на Карпато-Балканската геоложка асоциация

Поредният, 19-ти конгрес на Карпато-Балканската геоложка асоциация се проведе в гр. Солун (Гърция) от 23 до 26 септември 2010 г.

Конгресът беше перфектно организиран от гръцка страна, респективно от Председателя на Асоциацията проф. Г. Кристофидес. Той беше най-масовият от провежданите до сега конгреси, с над 700 участника – по данни на Организационния комитет авторите на заявените доклади бяха 1400 от 40 страни (вкл. от далечни страни, нямащи нищо общо с КБГА като Ирландия, Австралия, Нова Зеландия и др.). В *Geologica Balcanica*, едно от официалните списания на Асоциацията бяха отпечатани 550 абстракта на конгресните доклади (под ръководството на редакторите ст.н.с. Петър Марчев и ст.н.с. Искра Лакова). В Годишника на Солунския университет бяха отпечатани 2 тома с 135 статии, представляващи пълен текст на част от изнасяните доклади (за съжаление поради пропуск на отговорниците на съответната секция не е отпечатан един доклад на български участници). България бе представена с 56 абстракта (бройки и чуждестранните такива с българско участие), а 16 доклада бяха отпечатани с пълен текст (виж приложения списък). В тази цифра не са включени няколко абстракта на наши учени, работещи в чужбина по въпроси, които не касаят нашата геология. Така България се нареди на трето място по количество на абстрактите (след страната-домакин и Румъния) и на второ – по публикувани статии. За съжаление в секциите S 05 и S 22, с изключително интересна тематика и най-голямо българско участие, бяха публикувани само 2 от общо 20 доклада.

Конгресът беше с много наситена четиридневна програма (напр. обедните почивки бяха по половин час, а следобедните заседания в някои случаи продължаваха до началото на вечерта). Докладите бяха разпределени в 11 общи и 33 специални сесии, някои от които бяха обединени поради малкото участници в тях. Както се вижда от списъка по-долу, освен класическите геоложки дисциплини и актуална геоложка проблематика, бяха широко застъпени и близки на геологията дисциплини, но също много актуални в момента.

### Общи сесии:

- G 01. Structural geology and neotectonics
- G 02. Stratigraphy and palaeontology
- G 03. Applied geology (engineering geology, hydrogeology, urban geology, etc.)
- G 04. Mineral sciences, petrology, geochemistry, isotope geology and volcanology
- G 05. Seismology, geophysics and physics of the Earth's interior
- G 06. Meteorology, climatology and atmospheric environment (обединена с S 25)
- G 07. Earth sciences and society (teaching and education, health, sustainable development, etc.) (обединена с S 27)
- G 08. Physical geography, sedimentology, quaternary geology, karst and speleology (обединена с S 33)

- G 09. Remote sensing and information technologies in geosciences (обединена с S 32)
- G 10. Marine geology and oceanography (обединена с S 20)
- G 11. Environmental geosciences

### Специални сесии:

- S 01. Subduction and exhumation of continental margins and the role of oceanic convergence in the Carpathian–Balkan region. *Conveners: A. Rassios (GR), D. Kostopoulos (GR), A. Robertson (UK)*
- S 02. Tectonostratigraphic terranes in the Balkan region (обединена с S 03). *Conveners: D. Papanikolaou (GR), S. Kovács (HU)*
- S 03. Circum Pannonian Terranes – Eastern Alps, Carpathians, Dinarides (tectonostratigraphy, palaeotectonic evolution and present-day structure – presentation of monography TERRANES) (обединена с S 02). *Conveners: J. Vozár (SK), F. Ebner (AT), J. Haas (HU)*
- S 04. Correlating Mesozoic lithostratigraphic units within the Carpathian–Balkan region. *Conveners: G. Császár (HU), M. Wagreich (AT), J. Michalik (SK)*
- S 05. Advances in geology and geodynamic evolution of the Rhodope Massif. *Conveners: N. Bonev (BG), A. Magganis (GR)*
- S 06. The Eocene–Oligocene Thrace basin in Turkey, Bulgaria and Greece: sedimentation and tectonics (обединена с S 10). *Conveners: A. I. Okay (TR), W. Cavazza (IT), D. Papanikolaou (GR)*
- S 07. Danube valley geological structure, neotectonic activity and evolution during the Pliocene–Pleistocene time. *Conveners: E. Petru (RO), S. Shanov (BG)*
- S 09. Geology of the Pieniny Klippen Belt and the role of zones with extensive shortening in the structure of orogenic belts. *Conveners: D. Plašienka (SK), N. Oszczytko (PL)*
- S 10. Geology, geophysics, tectonics and geodynamics of Eastern Anatolia accretionary complex (Eastern Turkey high plateau) (обединена с S 06). *Conveners: M. Toker (TR), S. Özener (TR), P. Dimitrov (BG)*
- S 11. Olistostromes and their role in tectonostratigraphic reconstructions of the Carpathian–Balkan region. *Conveners: M. Cieszkowski (PL), M. Wendorff (BW)*
- S 12. The Upper Miocene Paratethyan regime in the Aegean region: causes, timing and implications (обединена с S 13). *Conveners: D. Kostopoulos (GR), G. Syrides (GR), I. Magyar (HU)*
- S 13. Neogene palaeoenvironmental reconstructions and climatic records in South-Eastern Europe (обединена с S 12). *Conveners: G. Koufos (GR), M. Triantaphyllou (GR), Mathias Harzhauser (AT)*
- S 14. Radiolarian biochronology: key to tectonostratigraphic reconstructions. *Conveners: T. Danelian (FR), S. Gorican (SI)*
- S 15. Tertiary potassic and ultrapotassic magmatism along the Carpathian–Balkan–Dinaride chain: petrological processes and geodynamics (обединена с S 16). *Conveners: G. Poli (IT), V. Cvetković (RS), A. Koroneos (GR)*
- S 16. Progress in understanding the evolution of the Late Alpine–Quaternary magmatism and geodynamic history of the

Carpathian–Balkan region (обединена с S 15). *Conveners: I. Seghedi (RO), Hilary Downes (UK)*

S 17. Phanerozoic geodynamic evolution of the Balkan Peninsula: constraints from petrological and geochronological studies (обединена с S 22). *Conveners: A. von Quadt (CH), F. Neubauer (AT), P. Marchev (BG)*

S 18. New advances of understanding physical volcanology processes in the Carpathian–Balkan region from a global perspective. *Conveners: K. Nemeth (NZ), Z. Pecskay (HU)*

S 19. Triassic rifting magmatism and associated deep-water sedimentation: their significance in the early evolution of the western part of Neotethys. *Conveners: L. Palinkaš (HR), S. Kovács (HU), G. Migiros (GR)*

S 20. Marine mineralization associated with volcanic arc and other environments, with emphasis on the Aegean and Black Sea (обединена с G 10). *Conveners: S. Varnavas (GR), K. Papavasileiou (GR), D. Cronan (UK)*

S 21. Metallogeny along the Carpathian–Balkan region. *Conveners: R. Moritz (CH), P. Voudouris (GR), V. Melfos (GR)*

S 22. Large-scale tectonic controls on fertility of magmatic suites for ore genesis in the Carpathian–Balkan region (обединена с S 17). *Conveners: A. von Quadt (CH), I. Peytcheva (BG), P. Marchev (BG)*

S 23. Gemology. *Conveners: S. Karamelas (CH), S. Sklavounos (GR), C. Ionescu (RO)*

S 24. Natural stones, usage and testing. *Conveners: T. Ákos (HU), M. Theodoridou (HU), R. Příkryl (CZ)*

S 25. Weather modification (обединена с G 06). *Conveners: Th. Karakostas (GR), M. Curić(RS)*

S 26. Measurements and modeling of biologically active UV solar radiation: towards balancing between risks and benefits. *Conveners: A. Bais (GR), I. Terenetskaya (UKR)*

S 27. Palaeoenvironmental research in Balkan mountain areas. *Conveners: K. Grunewald (DE), I. Traykov (BG)*

S 28. Geotourism (обединена с S 29). *Conveners: G. Timčák (SK), J. Jablonska (SK), T. Slomka (PL)*

S 29. Promoting geoconservation in South-Eastern Europe – Geoparks (обединена с S 28). *Conveners: Ch. Fassoulas (GR), N. Zouros (GR), D. Grigorescu (RO)*

S 30. Underwater geoarchaeology: an interdisciplinary field bridging marine geosciences and underwater archaeology. *Conveners: D. Sakellariou (GR), V. Lykousis (GR), N. Fleming (UK)*

S 31. Earthquake archaeology and geoarchaeology around Eastern Mediterranean and Black Sea (special IGCP 567 session). *Conveners: M. Sintubin (BE), S. Stiros (GR), K. Reicherter (DE)*

S 32. The use and applications of GPS and InSAR to geohazards across South-Eastern Europe (обединена с G09). *Conveners: A. Ganas (GR), P. Briole (FR)*

S 33. Assessment of climate, natural hazard and anthropogenic influence in Carpathian–Balkan lake sediments (обединена с G08). *Conveners: A. van Welden (NO), G. Zanchetta (IT), R. Koci (AL)*

За ръководители на заседания на Конгреса бяха поканени 8 български учени: Н. Бонев (S 05), П. Марчев (S 17–S 22), В. Младенова (G 11), Р. Недялков (G 04), М. Панайотова (G 03), И. Пейчева (S 22), С. Шанов (S 07) и Й. Янев (G 04).

От българска страна в Конгреса участваха главно учени от Софийския университет и Геологическия институт при БАН, както и по-ограничен брой от някои други научни и производствени организации. За отбелязване е участието на по-широк кръг от специалисти от науките за Земята като географи, геофизици, еколози, ботаници, хидролози и др.

След Конгреса се проведе една единствена геоложка екскурзия “Exhumation of the West Pelagonian margin and Pindos basin emplacement” с ръководител проф. А. Rassios

(Гърция). От наша страна съвместно с Гърция бяха предложени 2 екскурзии: в ЮЗ България и С. Гърция (ръководител от българска страна чл.-кор. И. Загорчев и участник ст.н.с. Н. Спасов) и в Изт. Родопи (ръководител от българска страна ст.н.с. Й. Янев и участници доц. Н. Бонев, н.с. С. Георгиев и инж. Д. Желев). Бяха изготвени необходимите гидове (този на втората екскурзия беше частично спонсориран от Балкан Минерал енд Майнинг). За съжаление, за тях, както и за още една екскурзия само на гръцка територия, не се събра необходимият минимум участници и те не бяха проведени.

На заседанието на Съвета на КБГА беше представена за провеждане през 2014 г. на следващия, 20-ти конгрес, единствено кандидатурата на Тирана (Албания). След обстойното представяне и задълбочено обсъждане тя бе приета с пълн консенсус. Предполагаемите дати за провеждане са 10–13 септември с подобна на 19-тия конгрес така правоучастие, публикуване на абстракти и сборник с пълн текст на представените доклади. Предвиждат се 4 екскурзии само на територията на Албания.

*Приложение:* българското участие в 19-ия конгрес на КБГА (Подчертаните доклади са публикувани в пълн текст в Scientific Annals of the School of Geology, Aristotle University of Thessaloniki. Proceedings XIX Congress of the CBGA)

## G 02: Stratigraphy and palaeontology

1. *Shopov, Y., Yalamov, T., Dimitrov, P., Dimitrov, D., Shkodorov, B.* Migrations caused by catastrophic flooding of the Black Sea during the Holocene.

2. *Andreeva, P., Boncheva, I., Lakova, I., Yanev, S., Ivanova, D.* Devonian stratigraphy and depositional environment of the Moesian Platform, NE Bulgaria. (poster)

## G 03: Applied geology (engineering geology, hydrogeology, urban geology, etc.)

3. *Panayotova, M., Dimitrov, I., Kashiliska, Z.* Shallow ground waters and the formation of carbonate soils in Southeast Bulgaria: a study in progress.

## G 04: Mineral sciences, petrology, geochemistry, isotope geology and volcanology

4. *Dimitrov, P., Dimitrov, D., Peychev, V.* The Black Sea – an energy crossroads and/or an unconventional energy and resource center in Europe.

5. *Georgiev, S., Yordanov, B., Nedyalkov, R.* Petrological and petrochemical characteristics of the rocks of the Kushla caldera, East Rhodope.

6. *Markova, K., Stefanova, M., Marinov, S. P., Milakovska, Z.* Geochemical characteristics of organic matter from overcoal sediments and dump materials (Maritza–East Coal Basin, Bulgaria).

7. *Nedialkov, R.* Preliminary results on xenoliths in basaltic andesite subvolcanic body in the vicinity of Kroumovgrad, Eastern Rhodopes, Bulgaria.

8. *Raeva, E., Cherneva, Z.* Geochemical comparison of some felsic Eocene granite intrusions in the Rhodope Massif, Southern Bulgaria and Northern Greece.

9. *Milovanov, P., Petrov, I., Marinova, A., Ilieva, E., Peytcheva, I., von Quadt, A., Pristavova, S.* New geological and geochronological data from granitoid and metamorphic rocks from SW Bulgaria, according to Bulgarian Geological Map in 1:50 000, sheet Berovo (K-34-82-G) and Kresna (K-34-83-W). (poster)

10. *Tarassov, M., Tarassova, E., Piroeva, I., Titorenkova, R.* EPMA and TEM study of monazite hydrothermal alteration in Igralishte granite pluton, Southwestern Bulgaria. (poster)

11. *Vassileva, R. D., Atanassova, R., Bonev, I. K.* Morphogenetic types of ore bodies, ore textures and crystallization mechanisms in the hydrothermal Madan deposits, Central Rhodopes. (poster)

## **G 05: Seismology, geophysics and physics of the Earth's interior:**

12. *Georgieva, G.* The Moho's structure in West Bulgaria obtained from receiver function. (poster)

13. *Radev, I., Mihaylov, E., Marinov, G., Ilieva, M., Matev, Kr., Georgieva, G., Popova, I.* Complex investigation of Krupnik–Kresna region in Southwestern Bulgaria by geodesy, gravimetry and seismology. (poster)

14. *Simeonova, S., Trifonova, P., Solakov, D., Stavrev, P.* Contribution of gravity data interpretation to the seismotectonic model compilation; an example from Bulgarian EC8 implementation. (poster)

## **G 11: Environmental geosciences:**

15. *Kotsev, T., Cholakova, Z., Mladenova, V., Dimitrova, D.* Efficiency of the Chiprovtsi mining site remediation with regard to heavy metal and arsenic environmental pollution.

16. *Mladenova, V., Kotsev, T., Cholakova, Z., Schmitt, R.-T., Ivanova, I., Dimitrova, D.* Pollution with arsenic and heavy metals of soils and some components of the food chain in the environment of Goliam Bukovets mine tailings impoundment, Chiprovtsi mining area, NW Bulgaria.

17. *Balinov, V., Doncheva, M., Zaneva–Dobranova, E.* Natural reservoir systems in the Tertiary section of the East Rhodope Depression and perspectives for storage of natural gas and carbon dioxide. (poster)

## **S 02: Tectonostratigraphic terranes in the Balkan region:**

18. *Lazarova, A., Gerdjikov, I., Vangelov, D., Georgiev, N.* Variscan transposition and related voluminous magmatism in Central Stara Planina Mountain, Bulgaria. (poster)

## **S 04: Correlating Mesozoic lithostratigraphic units within the Carpathian–Balkan region**

19. *Ivanova, D., Koleva–Rekalova, E., Lakova, I., Stoykova, K., Ivanov, M., Metodiev, L., Petrova, S., Tchoumatchenco, P., Rabrenović, D., Radulović, V., Malesević, N.* Upper Jurassic–Lower Cretaceous platform-to-basin integrated stratigraphy across the Bulgarian/Serbian border.

20. *Botoucharov, N., Chamberski, H.* Correlation of the Triassic rocks in the Moesian platform (Bulgaria–Romania). (poster)

## **S 05: Advances in geology and geodynamic evolution of the Rhodopes Massif**

21. *Bonev, N., Magganis, A., Klain, L.* Regional geology and correlation of the eastern Circum-Rhodope Belt, Bulgaria–Greece.

22. *Gautier, P., Gerdjikov, I., Ruffet, G., Bosse, V., Cherneva, Z., Pitra, P., Hallot, E.* Persistent synmetamorphic thrusting in the Rhodope until 33 Ma: evidence from the Nestos Shear Zone and implications for Aegean geodynamics.

23. *Georgieva, M., Cherneva, Z., Gerdjikov, I., Stancheva, E.* Metabasic rocks from the Chepelare variegated complex, Central Rhodope massif, Bulgaria; preliminary studies.

24. *Gerdjikov, I., Gautier, P., Cherneva, Z., Bosse, V., Ruffet, G.* Late Eocene synmetamorphic thrusting and syn-orogenic extension across the metamorphic pile of the Bulgarian Central Rhodope.

25. *Jahn–Awe, S., Froitzheim, N., Nagel, T. J., Frei, D., Pleuger, J., Georgiev, N.* Structural and geochronological evidence for Palaeogene shearing in the Rhodope Mountains (SW Bulgaria).

26. *Kozhoukharova, E.* Metaophiolite association in the Rhodope Massif as a stratigraphical and structural marker.

27. *Nagel, T. J., Schmidt, S., Janák, M., Froitzheim, N., Jahn–Awe, S., Georgiev, N.* The exposed base of a collapsing wedge; the Nestos Shear Zone (Rhodope Metamorphic Province, Greece).

28. *Cherneva, Z.* Paleocene–Eocene migmatites in the Bulgarian Rhodope revisited. (poster)

29. *Georgiev, N., Pleuger, J., Froitzheim, N., Sarov, S., Jahn–Awe, S., Nagel, T. J.* Separate Eocene–Early Oligocene and

Miocene stages of extension and core complex formation in the Western Rhodopes (Bulgaria). (poster)

30. *Machev, Ph., Arkadakskiy, S., Hecht, L., Klain, L.* Is the Lower tectonic unit (Lower terrain) in the Rhodope a monolithic tectonic Unit? (poster)

## **S 06: The Eocene–Oligocene Thrace basin in Turkey, Bulgaria and Greece: sedimentation and tectonics**

31. *Zagorchev, I., Ivanova, D., Bassi, D.* Observations on the Palaeogene of Samothraki Island: implications for the geology of Rhodope and Thrace.

## **S 07: Danube valley geological structure, neotectonic activity and evolution during the Pliocene–Pleistocene time**

32. *Shanov, S., Radulov, A.* Seismotectonic model on geological data for 1892 Duloovo earthquake, Lower Danube Valley.

33. *Yaneva, M., Ognjanova–Rumenova, N.* Lom coal Basin (NW Bulgaria); preliminary data on palaeoecology and sedimentology.

## **S 13: Neogene palaeoenvironmental reconstructions and climatic records in South-Eastern Europe**

34. *Ivanov, D.* Palaeoclimate reconstructions for the Late Miocene in the Southeast Bulgaria using pollen data from the Tundzha Basin.

35. *Hristova, V., Ivanov, D.* The reconstruction of the Late Miocene flora and climate from the Sofia Basin (South-West Bulgaria) based on palynological data. (poster)

36. *Stefanova, M., Marinov, S. P., Zdravkov, A., Kortenski, J.* Palaeoenvironmental reconstruction and climate changes in SE Europe (Neogene Karlovo lignites, Central Bulgaria). (poster)

## **S 15: Tertiary potassic and ultrapotassic magmatism along the Carpathian–Balkan–Dinaride chain: petrological processes and geodynamics**

37. *Yanev, Y., Boev, B., Iliev, Tz., Pécsekay, Z., Karadjov, M., Boev, I.* Mineralogy of the Pliocene trachyte and its carbonatitic minette inclusions in Ostrvica, FYRO Macedonia.

## **S 17: Phanerozoic geodynamic evolution of the Balkan Peninsula: constraints from petrological and geochronological studies**

## **S 22: Large-scale tectonic controls on fertility of magmatic suites for ore genesis in the Carpathian–Balkan region**

38. *Bosse, V., Cherneva, Z., Gautier, P., Gerdjikov, I.* Two partial melting events as recorded by the U–Th–Pb chronometer in monazite: LA-ICPMS in situ dating in metapelites from the Bulgarian Central Rhodope.

39. *Dyulgerov, M., Ovtcharova, M., Schaltegger, U.* Unraveling the time of formation of potassic-alkaline rocks in the Variscan edifice in Stara planina, Bulgaria: IDTIMS and LA ICP-MS study.

40. *Marchev, P., Arai, S., Ishida, Y., Shirasaka, M., Downes, H.* Trace element and isotopic constraints on the genesis of the cumulitic xenoliths from the alkaline basalts in the eastern Rhodope metamorphic core complexes.

41. *Moll, M., von Quadt, A., Peytcheva, I., Heinrich, C.* Cretaceous magmatic evolution of the Timok magmatic complex (TMC) and Ridanj–Krepoljin zone (RKZ), East Serbia: implications from geochemistry and geochronology.

42. *Neubauer, F., Bilyarski, S., Genser, J., Ivanov, Z., Peytcheva, I., von Quadt, A.* Jurassic and Cretaceous tectonic evolution of the Sakar and Srednogorie zones, Bulgaria: <sup>40</sup>Ar/<sup>39</sup>Ar mineral ages and structures.

43. *Peytcheva, I., von Quadt, A., Dyulgerov, M., Nedialkov, R.* Age and source heterogeneities in the rocks of Lutskan and Rui plutons, Bulgaria: some thoughts about their relation to the A-mineralization at Zlata deposit.

44. *Pleuger, J., Georgiev, N., Jahn–Awe, S., Kirchenbauer, M., Nagel, T. J., Froitzheim, N.* KEYNOTE: New structural and geochronological data for the Tertiary evolution of the Rhodopes.

45. von *Quadt, A., Peytcheva, I., Sarov, St., Heinrich C. A.* Cretaceous magmatic evolution of the Srednogorie Zone (Bulgaria) and the continuous evolution into the Rhodopen Massif (Bulgaria, Greece).

46. *Atanasova-Vladimirova, S., von Quadt, A., Marchev, P., Peytcheva, I., Piroeva, I., Mavrudchiev B.* Petrology and geochronology of the Vitosha volcano–plutonic edifice, Western Srednogorie, Bulgaria. (poster)

47. *Grozdev, V., Georgiev, S., von Quadt, A., Peytcheva, I., Marchev, P., Serafimovski, T. and SCOPES team.* Tertiary magmatism in SW Bulgaria and Eastern FYR Macedonia: geochemistry, geodynamic setting and relation to mineral resources. (poster)

#### **S 21: Metallogeny along the Carpathian–Balkan region**

48. *Moritz, R., Márton, I., Ortelli, M., Marchev, P., Voudouris, P., Bonev, N., Spikings, R., Cosca, M.* A review of age constraints of epithermal precious and base metal deposits of the Tertiary Eastern Rhodopes: coincidence with Late Eocene–Early Oligocene tectonic plate reorganization along the Tethys.

#### **S 23: Gemology**

49. *Kostov, R. I.* Gem minerals and materials from the Neolithic and Chalcolithic periods of Bulgaria and their impact on the history of gemology.

50. *Strack, E., Kostov, R. I.* Gemological examination of jewelry objects from Veliki Preslav in Bulgaria.

#### **S 27: Palaeoenvironmental research in Balkan mountain areas**

51. *Tonkov, S., Bozilova, E., Possnert, G.* Lateglacial vegetation and palaeoenvironment in the northwestern Rila Mountains, Bulgaria: the pollen record of Lake Ribno.

52. *Panajiotidis, S., Bozilova, E., Gedrasimidis, A., Tonkov, S.* Late Holocene vegetation history and human impact in Beles (Belasitza) mountain.

#### **S 30: Underwater geoarchaeology: an interdisciplinary field bridging marine geosciences and underwater archaeology**

53. *Preshlenov, H.* Coastal instability and urban changes – the case of the Nessebar Peninsula.

#### **S 32: The use and applications of GPS and InSAR to geohazards across South–Eastern Europe**

#### **G 09: Remote sensing and information technologies in geosciences**

54. *Georgiev, I., Dimitrov, D., Ganas, A.* Permanent GPS array in Bulgaria with impact on the geodynamics in East Mediterranean.

55. *Dimitrov, D., Botev, E., Georgiev, I.* The results from monitoring of the Krupnik seismogenic area in SW Bulgaria.

56. *Kostyanov, S., Valev, G., Majdrakov, M., Jelev, V., Avdev, S., Bliznakov, A., Stoyanov, V., Atanasova, E.* The use of GNSS technologies for application in mining, geology and geodesy in Bulgaria. (poster)

*Йоцо Янев*  
Национален представител в КБГА