



Program of the 15th CETeG Meeting

Zánka, Lake Balaton, 5th-8th April 2017

Wednesday, 5th April, pre-conference field trip

Pre-conference field trip leaves Zánka at 8 am sharply and arrives back in the late afternoon (ca. 19h).

19:30 Wine-tasting and dinner

Please, take your helmet and safety vest if you can bring one!

Thursday, 6th April, scientific day I.

Registration desk opens at 7:40.

8:00 Welcome, opening of the meeting (L.I. Fodor)

Session 1 (8:10 – 10:25) Indentation and deformation: from analogue modelling to deformation of the upper crust (6)

Chairman: László Fodor

[Inge van Gelder](#), [Ernst Willingshofer](#), [Liviú Matenco](#), [Dimitrios Sokoutis](#), [Paul Andriessen](#), [Ralf Schuster](#), [Sierd Cloetingh](#): Interfering orogenic processes derived from AlCaPa-Adria interactions (**keynote talk**) (8:10-8:40)

[Vesna Lesić](#), [Emő Márton](#), [Vesna Cvetkov](#), [Violeta Gajić](#), [Dragana Jovanović](#): Paleomagnetic evidence for CW rotation in the Western Vardar zone of Serbia (8:40-9:00)

[Ferenc Horváth](#), [Ferenc Visnovitz](#), [Attila Balázs](#), [Balázs Koroknai](#), [Kádi Zoltán](#), [Géza Wórum](#), and [Tamás Tóth](#): Young strike-slip tectonics in the Pannonian basin: review of new seismic data and interpretations in Hungary (9:00-9:25)

[Benjámin Jakab et al.](#): Mapping of neotectonic structures at the eastern shores of Lake Balaton using ultra-high resolution seismic profiles recorded in 2014 and 2016 (9:25-9:45)

[F. Visnovitz](#), [B. Hegyi](#), [A. Raveloson](#), [G. Rozman](#), [L. Lenkey](#), [P. Kovács](#), [A. Csontos](#), [B. Heilig](#), [F. Horváth](#): The magnetic survey of Lake Balaton and its tectonic significance (9:45-10:05)

[Tamás Biró](#), [Emő Márton](#), [Dávid Karátson](#), [Mátyás Hencz](#): New paleomagnetic results on ignimbrites in the Mátra Mountains and Bükkalja Foreland Volcanic Area (10:05-10:25)

10:25-10:50 Coffee break and posters

Session 2 (10:50-12:20) Pannonian Basin from mantle to upper crust – interaction of plate tectonics, mantle dynamics and sedimentation (4)

Chairman: Frank Horváth

Cestmir Tomek: East Moesia continental subduction, slab extension, and the origin of intermediate earthquakes beneath Vrancea Mountains of Romania (**keynote talk**) (10h50-11h20)

István Kovács, László Lenkey, David H. Green, Tamás Fancsik, György Falus, János Kiss, László Orosz, Zsuzsanna Viktor, J. Angyal: The role of amphibole in the dynamics and rheology of the lithosphere–asthenosphere system (11:20-11:40)

László Aradi, Károly Hidas, István János Kovács, Csaba Szabó: Deformation and fluid-enhanced annealing in subcontinental lithospheric mantle beneath the Pannonian Basin (Styrian Basin, Eastern Austria) (11:40-12:00)

Attila Várkonyi, Witte Jan: Regional tectonic evolution of the Derecske trough, Hungary (12:00-12:20)

12:20-13:50: Lunch break

Session 3: Connection between deformation and sedimentation (6) (13:50-15:50)

Chairman:

Tamás Csibri, Samuel Rybár, Michal Kováč: Depositional environment of the Lower and Middle Miocene conglomerates in key wells of the northern Blatné depression (Danube Basin) (13:50-14:10)

Rastislav Vojtko, Emő Márton, Antek K. Tokarski, Radovan Pipík, Silvia Králiková, Ania Świerczewska, Tomáš Klučiar: Late Miocene to Quaternary tectonic evolution of the Turiec Basin (Western Carpathians) (14:10-14:30)

Krisztina Sebe: From post-rift phase to basin inversion – late-stage tectonic evolution of the Mecsek–Villány area, SW Hungary (14:30-14:50)

Éva Oravec, László Fodor, Szilvia Kövér: Significance of Jurassic early deformation structures in the SW-Bükk Mts. (14:50-15:10)

Nevenka Djerić, Špela Goričan, Nataša Gerzina Spajić, Renata Jach, Daniela Rehakova: The use of biostratigraphic tools in dating the remnants of the Alpine Tethys (Danubian Nappes, eastern Serbia) (15:10-15:30)

M. Krobicki, T. Gagulski & G. Gorczyca: The early Late Cretaceous synsedimentary tectonic events in the Peri-Tethys region (Miechów Synclinorium and Silesian-Kraków Homocline, southern Poland) (15h30-15h50)

15:50-16:10 Coffee break and posters

Session 4: Paleomagnetism and fractures (5) (16:10-17:50)

František Hrouda, Josef Ježek, Stuart Gilder, Michael Wack: Different sensitivities of paramagnetic and ferromagnetic minerals to ductile deformation in Intra-Carpathian Palaeogene of the Skorušinské vrchy Hills (16:10-16:30)

Emő Márton, Jozef Madzin, Jana Bučová, Jacek Grabowski, Dušan Plašienka, Roman Aubrecht: New paleomagnetic results from Permian and Triassic rocks from the Hronic Nappe (Nízke Tatry) and Paleogene sediments from the Central Carpathian Paleogene Basin, Western Carpathians (16:30-16:50)

Kolářová Kristina, Černý Jan, Melichar Rostislav: Magnetic and structural studies of Křivoklát-Rokycany volcanic complex, Barrandian, Czechia (16:50-17:10)

Nováková Lucie, Schnabl Petr, Štěpančíková Petra, Křížková Martina: Microtectonic studies of the faults (17:10-17:30)

Jan Barmuta, Piotr Hadro, Krzysztof Dzwinel: Determination of fracture distribution based on seismic attributes and geomechanical modelling (17:30-17h50)

17:50-19:00 Poster session

Friday, 7th April, scientific day II.

Session 4: Metamorphism and deformation (4) (8:10 – 9:50)

Chairman: Marián Putiš

[Żelaźniewicz Andrzej](#), Fanning Christopher Mark: Archean–Paleoproterozoic processes in Brunovistulia, the Upper Silesia Block, S Poland: a fragment of TTG-greenstone belt? (8:10-8:30)

[Collett Stephen](#), Štípská Pavla, Soldner Jeremie, Anczkiewicz Robert, Schulmann K, Peřestý V, Lexa O, Kylander-Clark A, Hacker B: P–T–t–d evolution of Devonian eclogites in the Mariánské Lázně Complex (Bohemian Massif): 15–20 Ma from subduction to HT extensional exhumation (8:30-8:50)

[Vít Peřestý](#), Ondrej Lexa, Pavla Štípská, Petr Jeřábek, Martin Racek: Pre-Variscan rift-related structure and metamorphism in the Domažlice Crystalline Complex, (the Teplá-Barrandian Domain, Bohemian Massif) (8:50-9:10)

[Jedlička Radim](#), Faryad Shah Wali: Common metamorphic history shared by felsic and mafic granulite from Rychleby Mountains (Bohemian Massif) (9:10-9:30)

[Larikova Tatiana](#), Racek Martin: Formation of the complex symplectitic textures in the eclogites of the Moldanubian domain, the Bohemian massif (9:30-9:50)

9:50-10:10 Coffee break and posters

Session 5: Metamorphism, deformation, melt (4) (10:10-11:30)

Chairman: Ralf Schuster

[Kryl Jakub](#), Jeřábek Petr, Lexa Ondrej: Distinct deformation microstructures related to deformation overprints identified in quartzo-feldspathic rocks of the Krušné hory Mountains (Erzgebirge) (10:10-10:30)

[Racek Martin](#), Lexa Ondrej, Schulmann Karel, Corsini Michel, Štípská Pavla, Maierová Petra: Re-evaluation of polyphase kinematic and ⁴⁰Ar/³⁹Ar cooling history of Moldanubian hot nappe at the eastern margin of the Bohemian Massif (10:30-10:50)

[Pavčina Hasalová](#), Pavla Štípská, Karel Schulmann and Alfonso Sola: Granulite migmatization and retrogression: result of pervasive melt influx (10:50-11:10)

[Prokop Závada](#), M. Racek, P. Hasalová, P. Jeřábek, K. Schulmann, R. F. Weinberg, P. Štípská and A. Roberts: Porous melt flow in high pressure felsic crust driving weakening and exhumation dynamics of subducted continents (11:10-11:30)

Session 6: Regional synthesis (4) (11:20-12:40)

Chairman: Ondrej Lexa

[Paweł Aleksandrowski](#): The tectonics of Poland from base to top: new data and interpretations (11:20-11:40)

[Karel Schulmann](#), Ondrej Lexa, Min Sun, Vojtěch Janoušek, Alexandra Guy, Yingde Jiang, Pavla Štípská: Palaeozoic Asian continental growth: result of accretionary and collisional history (11:40-12:00)

[Sikora Rafał](#), Wójcik Antoni: Fold and thrust events on the SW margin of the Zavkhan terrane (Western Mongolia) - implications for accretionary history of the Central Asian Orogenic Belt (CAOB). (12:00-12:20)

[Hmidou El Ouardi](#), Afaf Amine, Brahim Karaoui, Abdelkader Mahmoudi: Structural setting of the copper mineralizations of the Bouskour mining district in the Anti Atlas belt (Southern Morocco) (12:20-12:40)

12:40-14:00: Lunch and posters

Session 7 (14:00-16:10) Mid-Cretaceous tectono-metamorphic event: from microscale observations to correlation of basement nappes (7)

Chairman: Karel Schulmann

[Ralf Schuster](#), Martin Reiser, Manfred Linner, Júlia Dégi, Edit Király, Gerhard W. Mandl: Correlation of basement units from the Pannonian basin and surrounding areas based on lithological associations and the distribution of tectonometamorphic imprints (**keynote talk**) (14:00-14:30)

[Reiser Martin](#), Schuster Ralf, Săbău Gavril, Tropper Peter, Fügenschuh Bernhard: Timing and conditions of Alpine peak metamorphism in the Tisza and Dacia Mega-Units, Apuseni Mountains, Romania (14:30-14:50)

[Marián Putiš](#), Čestmír Tomek, Corina Ionescu, Pavol Siman, Zoltán Németh, Peter Ružička: Structure and white mica Ar–Ar ages of the Inner Western Carpathians Eo-Alpine orogeny segments: A correlation with Apuseni Mts. (14h50-15:10)

Edit Király, Kálmán Török, [Júlia Dégi](#), Zsófia Kertész, Rainer Abart: Garnet growth history in Kő-hegy gneiss (Sopron Mts, Hungary): combined FE-EPMA, micro-PIXE and LA-ICP-MS study (15:10-15:30)

[Gábor Héja](#), Szilvia Kövér, János Csizmeg, Andras Németh, László Fodor: The deformation of the SW part of the Transdanubian Range (West Hungary), based on balanced cross-sections (15:30-15:50)

Németh Zoltán, Putiš Marián, Hraško Ľubomír: A sequence of geodynamic events producing repeated metallogeny and multi-generation mineral deposits in the W. Carpathians (15:50-16:10)

Juráček Jan, Melichar Rostislav: Post-Variscan tectonics of central part of the Bohemian Cretaceous Basin (Czech Republic) (16:10-16:30)

16:30-16:50 General Discussion, Concluding remarks, conference summary

16:50-17:10 Coffee break and posters

17:10-19:00 Poster session

**19:00 Conference dinner with live music and dance in the Main Building of the Villapark;
Radek Melka price,
Best student talk and poster price**

POSTERS (28)

Carmen María Aguilar Gil, F. Chopin, C. Aguilar, K. Schulmann, P. Štípská, J.E. Martelat, P. Pitra: Rheology of high-pressure migmatites during lateral shortening and associated exhumation (Orlica–Śnieżnik Dome - Bohemian Massif)

Afaf AMINE and Hmidou EL OUARDI: Neotectonic studies at the South Rifian Ridges, Northern Morocco on the basis of GIS-based mapping

László Bereczki, Gábor Markos, Dénes Gärtner, Zoltán Frieid, Balázs Musitz, Gyula Maros: Structural modelling of the synrift sub-basins in the Pannonian Basin

Dariusz Botor: Tectono-thermal evolution of the Lower Paleozoic petroleum source rocks in the southern Lublin Trough (SW slope of the East European Craton, Poland): implications for shale gas exploration from maturity modeling.

Dariusz Botor, Dunkl István, Anczkiewicz Aneta, Toboła Tomasz, Jelonek Iwona: Thermal history of the Moravo-Silesian Lower Carboniferous Culm Basin in the Nížký Jeseník Mountains (NE Czech Republic - SW Poland)

Jan Černý, Melichar Rostislav: New methods for separation of inverse and normal AMS fabric components
F. Chopin, C. Aguilar, K. Schulmann, P. Štípská, J.E. Martelat, P. Pitra: Rheology of high-pressure migmatites during lateral shortening and associated exhumation (Orlica–Śnieżnik Dome - Bohemian Massif)

Kristian Csicsay, Cipciar Andrej, Fojtikova Lucia, Jan Madaraš: Tectonic earthquakes on the territory of Slovakia localized by modernized National Network of Seismic Stations

Nataša Gerzina Spajić, Nevenka Djerić, Nikita Bragin & Liubov: Synthesis of data on stratigraphic and tectonic setting of the Eastern Vardar Zone in Serbia – open questions

Judit Horváth, Gábor Lajos Szujó, Gyula Konrád, Krisztina Sebe: 3D representation of fault zones in the Mecsek Mts., Hungary

Ervin Hrabovszki, Emese Tóth, Félix Schubert: A study of different vein types from the Boda Claystone Formation, Mecsek Mountains, SW Hungary

Petra Jašarová, Racek Martin, Jeřábek Petr: Metagabbros from western part of the Teplá-Barrandian Unit (Bohemian Massif) and its significance for evolution of the area

Mirosław Jastrzębski, Budzyń Bartosz, Żelaźniewicz Andrzej, Kozub-Budzyń Gabriela: Timing of granulite- and amphibolite facies metamorphism in the Góry Sowie Massif, the Sudetes

Gábor Katona: Preliminary analysis of heterogeneous fault slip systems in the Mexikó-völgyi limestone quarry
Klučiar Tomáš, Kováč Michal, Vojtko Rastislav, Rybár Samuel, Šujan Michal, Králiková Silvia: Boundary between the Central Western Carpathians and Northern Pannonian Domain - The Hurbanovo–Diósjenő Fault

Szilvia Kövér, Hannah Pomella, Gyula Márky, Rastislav Milovsky, László Fodor: Magnetic fabric of fault breccia: Revealing the direction of nappe-stacking in the Inner Western Carpathians by AMS analyses

Krýza Ondřej, Závada Prokop, Lexa Ondrej, Schulmann Karel: Analogue modeling of oroclinal buckling and indentation tectonics - insights from quantitative analysis based on PIV method.

Kufrasa Mateusz, Mikołajczak Mateusz, Mazur Stanisław, Krzywiec Piotr: Variscan thin-skinned deformation in the Lublin Basin (Poland) – results of gravity field analysis and cross-section balancing

Kusbach Vladimír, Janoušek Vojtěch, Machek Matěj: Geochemical modelling of orogenic peridotites from Bohemian Massif

Štefan Méres, Alexander Lačný, Dušan Plašienka and Rastislav Vojtko: Occurrence of three monazite age groups in the metamorphosed deep-marine sediments of the Dvorníky Formation (Turňa Unit, Western Carpathians) – preliminary results

Előd Mészáros, Kitti Décsei, Ágnes Fiser-Nagy, Félix Schubert: Deformation induced myrmekite formation during mylonitisation of the metapegmatoid rocks from the Dorozsma Complex (S Hungary)

Radmila Nahodilová, Pavlína Hasalová, Pavla Štípská: High pressure melting of orthogneiss in Kutná hora crystalline complex, Bohemian Massif

Papp Nikoletta, Varga Andrea, Raucsik Béla, Mészáros Előd: Characteristic microstructures and deformation of the Dorozsma marble, Tisza Mega-unit, South Hungary

Krisztina Sebe, István Dunkl, Gyula Konrád, Agnieszka Anczkiewicz Aneta: Thermochronological evidence on the Alpine exhumation events in Tisza Unit – cooling history of Mecsek Mountains, Hungary

Pavla Štípská, Pavlína Hasalová, Roger Powell, Prokop Závada, Martin Racek, Radmila Nahodilová: HP melting of granitic orthogneiss (Sněžník dome, Bohemian Massif)

Marta Tomaszczyk, Paweł Aleksandrowski, Janusz Badura, Bogusław Przybylski: Young tectonic features of Lower Silesia (SE Poland) revealed with morphometric methods applied to LIDAR-based DEM: preliminary results

Twyrdy Maksymilian, Bełka Zdzisław: Contrasting geochemical and isotopic characteristics of two groups of metabasites from the NE Bohemian Massif (Sudetes, Poland): new insight into the opening of the Rheic Ocean

Rastislav Vojtko, Silvia Králiková, Paul Andriessen, Roberta Prokešová, Jozef Minár, Petr Jeřábek: Geological evolution of the western part of Southern Veporic Unit (Western Carpathians): based on fission track and morphotectonic data

Prokop Závada, Martin Racek, Pavlína Hasalová, Pavla Štípská, Petr Jeřábek, Karel Schulmann, Bradley R. Hacker, Robert Holder, Andrew Kylander-Clark, Roberto F. Weinberg: Percolating melt fingerprint in coupled age and geochemistry of monazites acquired during HP metamorphism in subducted continental crust

Saturday, 9th April, post-conference “field trip”

Post-conference field trip will be held in the Conference venue. Starting time: 9:00

Petrology and structural evolution of the metamorphic basement of the Pannonian Basin

Tivadar M. Tóth, Ágnes Fiser-Nagy, Félix, Schubert

University of Szeged, Department of Mineralogy, Geochemistry and Petrology

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