Carpatho-Balkan Geomorphological Commission

and

IAG/AIG Carpatho-Balkan-Dinaric Regional Working Group

as well as

The Association of Slovak Geomorphologists

The Association of Polish Geomorphologists

Institute of Geography, Slovak Academy of Sciences

Institute of Geography and Spatial Organisation, Polish Academy of Sciences, Department of Geoenvironmental Research

Jagiellonian University, Institute of Geography and Spatial Management

Comenius University in Bratislava, Faculty of Natural Sciences, Department of Physical Geography and Geoecology



are pleased to invite you to the international scientific

Carpatho-Balkan-Dinaric Conference on Geomorphology

held

on the occasion of the 50th anniversary of foundation of the Carpatho-Balkan Geomorphological Commission

on June 24-28 2013

at the Congress Centre Academia of the Slovak Academy of Sciences, Stará Lesná, Tatranská Lomnica, Slovakia

3rd ANNOUNCEMENT

with final programme

Background

In 2013 it will be just 50 years from the time when the Carpatho-Balkan Geomorphological Commission (CBGC) was founded. In September 1963, the Department of Geomorphology and Hydrology of Mountains and Uplands of the Institute of Geography of the Polish Academy of Sciences and the Institute of Geography of the Slovak Academy of Sciences organized the International Symposium on Geomorphology of the Carpathians, which started in Krakow, continued in the form of the excursion from Poland to Slovakia and finished in Bratislava.

The main objective of the CBGC from its beginning was to provide a platform not only for the exchange of knowledge and experience concerning the geomorphic research of the Carpatho-Balkan mountain system and adjacent depressions, but also for the solving of common research tasks. Its members had become Bulgaria, Czechoslovakia, Hungary, Poland, Romania, Soviet Union and Yugoslavia. In 1967 Studia Geomorphologica Carpatho-Balkan system was founded.

Presidents of the Commission were Mieczyslaw Klimaszewski (1963-1978), Emil Mazúr (1978-1987), Zoltán Pinczés (1987-1998), Dan Bălteanu (1998-2003), Miloš Stankoviansky (2003-2007) and Dénes Lóczy (2007-2013). Key meetings were held in Sofia (1966), Bucureşti (1970), Budapest (1975), Prešov (1982), Debrecen (1987), Băile Herculane-Orşova (1998), Bratislava (2003), Pécs (2007) and Ostravice (2011).

In 2005 the International Association of Geomorphologists (IAG) approved its new working group, namely the Carpatho-Balkan-Dinaric Regional Working Group (CBDRWG) for the tenure 2005-2009 (chair: Miloš Stankoviansky). Its operation within the IAG was prolonged for the next tenure 2009-2013. Its member states are Austria, Bulgaria, Croatia, Czechia, Hungary, Macedonia, Poland, Romania, Serbia, Slovakia, Slovenia, and Ukraine. As member countries of the IAG CBDRWG are at the same time also actual members of the CBGC, the study area of the original CBGC was broadened by the Dinarides. The main result of the cooperation of geomorphologists within the CBGC and IAG CBDRWG member countries is the book monograph "Recent Landform Evolution. The Carpatho-Balkan-Dinaric Region" (editors: Dénes Lóczy, Miloš Stankoviansky and Adam Kotarba), published by Springer in 2012. Eleven of twelve member countries took part in its preparation.

The jubilee Carpatho-Balkan-Dinaric Conference on Geomorphology in Stará Lesná, held in the year of the half-a-century anniversary of the founding of the CBGC as well as in the last year of operation of the IAG CBDRWG, is organized (similarly as the foundation conference 50 years ago) by both Slovak and Polish geomorphologists.



Local Organizing Committee

Dr. Milan Lehotský Institute of Geography, Slovak Academy of Sciences

Assoc. Prof. Zofia Rączkowska Institute of Geography and Spatial Organisation, Polish Academy of Sciences

Prof. Kazimierz Krzemień Jagiellonian University, Institute of Geography and Spatial Management

Dr. Ján Novotný Institute of Geography, Slovak Academy of Sciences

Dr. Zora Machová Comenius University in Bratislava, Faculty of Natural Sciences, Department of Physical Geography and Geoecology

Ing. Anna Kidová Institute of Geography, Slovak Academy of Sciences

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Dr Elżbieta Gorczyca Jagiellonian University, Institute of Geography and Spatial Management

Dr Dominika Wałach-Wrońska Jagiellonian University, Institute of Geography and Spatial Management

Dr Michał Długosz Institute of Geography and Spatial Organisation, Polish Academy of Sciences

International Honorary Committee

Prof. Dénes Lóczy President of the Carpatho-Balkan Geomorphological Commission

Assoc. Prof. Miloš Stankoviansky Chair of the Carpatho-Balkan-Dinaric Regional Working Group (IAG)

Prof. Lucian Badea Institute of Geography, Romanian Academy

Prof. Dan Bălteanu Institute of Geography, Romanian Academy

Prof. Jaromír Demek Research Institute for Silva Tarouca landscape and ornamental gardening, Brno, Czech Republic

Prof. Tadeusz Gerlach Institute of Geography and Spatial Organisation, Polish Academy of Sciences

Assoc. Prof. Jozef Jakál Institute of Geography, Slovak Academy of Sciences

Prof. Kazimierz Klimek University of Sosnowiec, Poland

Prof. Adam Kotarba Institute of Geography and Spatial Organisation, Polish Academy of Sciences

Prof. Karel Natek University of Ljubljana, Slovenia

Prof. Leszek Starkel Institute of Geography and Spatial Organisation, Polish Academy of Sciences

Prof. Ferenc Schweitzer Geographical Institute, Hungarian Academy of Sciences

Programme of the Carpatho-Balkan-Dinaric Conference on Geomorphology (24 – 28 June 2013, Stará Lesná, Slovakia)

24 June 2013

Arrival

25 June 2013

- 9:00-13:30 Arrival and Registration
- 12:30-13:30 Lunch

13:30–14:00 Opening of the Conference

Milan Lehotský – President of the Association of Slovak Geomorphologists

Ján Mokoš – Mayor of the Town of Vysoké Tatry

Pavol Majko – Director of the Tatra National Park (TANAP)

Peter Líška – Director of the State Forests of TANAP

Dénes Lóczy – President of the Carpatho-Balkan Geomorphological Commission

Miloš Stankovianský – Chair of the Carpatho-Balkan-Dinaric Regional Working Group

14:00–16:00 Keynote lectures (Chair: Milan Lehotský)

14:00–14:30 *Leszek Starkel* Main regularities of mountain relief evolution

14:30–15:00 Jaromír Demek

Pleistocene cryopediments and cryopediplains of the Moravian-Silesian Carpathians (Czech Republic)

15:00–15:30 *Dénes Lóczy* Landforms, water availability and land use in floodplains

15:30–16:00 *Petru Urdea, Alexandru Onaca, Florina Ardelean, Roxana Putan* Geophysical investigation in the periglacial belt of the central area of the Făgărăş Mountains

16:00–16:30 Coffee break

16:30–17:30 1st Session – Fluvial geomorphology, palaeo-hydrology

(Chair: Leszek Starkel)

16:30–16:45 *Orsolya Katona, György Sipos, Alexandru Onaca, Florina Ardelean* Reconstruction of palaeo-hydrology and fluvial architecture at the Orosháza palaeochannel of the Maros River, Hungary

16:45–17:00 Peter Pišút, Juraj Procházka

Human modifications of meandering Váh river at the Leopoldov fortress (Slovakia) in the 18th Century

17:00–17:15 Borbála Sümeghy, Tímea Kiss, György Sipos Late Quaternary paleo-drainage reconstruction of the Maros River Alluvial Fan based on detailed study of superficial paleo-channels

17:15–17:30 Péter Hernesz, Tímea Kiss, György Sipos

Late Glacial and Holocene floodplain development along the lower section of the Tisza River, Hungary

17:40–19:00 1st Poster Session (*Chair: Kazimierz Klimek*)

Zsanett Kopecskó, Krisztina Babák, Ibolya Kiss, István Péter Kovács, Ferenc Schweitzer Renewing karst springs after subsurface mining

Mónika Kovács, Szabolcs Ákos Fábián

Anthropo-morphological impacts on surface development in a foothill region of Mecsek Mts.

Tibor József Novák, József Incze, Péter Rózsa

Quantifying anthropogeomorphological transformation by using the concept of 'hemeromorphy' – a case study from Hungary, the Tokaj Big-Hill

Ágnes Novothny, Balázs Bradák, Christine Thiel, Erzsébet Horváth, Manfred Frechen Dating of loess covers on the terrace levels along the Danube

Florina Grecu, Marta Jurchescu, Marius Paisă, Robert Dobre Sheet and rill erosion hazard within drainage basins in hilly regions (Romania)

Réka Balogh, Dénes Lóczy

Landscape Evaluation of the Drava floodplain. Opportunities for ecological agriculture

Sandu Boengiu, Oana Ionuş, Amalia Bădiță, Emil Marinescu Generations of meanders of the Jiu River in the lower sector (South-West of Romania)

Juraj Hreško, Gabriel Bugár, František Petrovič, Helena Sedláková, Ľubomír Rybanský, Anton Sedlák

Morphodynamic Aspects of High Tatras' Alpine Lakes Classification

Laura Comănescu, Robert Dobre, Alexandru Nedelea The map of geoattractiveness – a new type of geotouristic map. Case study – the central sector of the Bucegi Mountains

Helena Sedláková, Miroslav Žiak, Anton Sedlák, Juraj Hreško, Gabriel Bugár Basic concept of the perennial snow patches research in the High Tatras, case study area: Čierna Javorová dolina Valley

Anna Chrobak

Evolution of landslides in tributaries of Czarny Dunajec River (Podhale area) after violent rainfall at 28 June 2009 (West Podhale region)

Mădălina Teodor, Robert Dobre, Florina Grecu Developing and implementing an integrated system in order to accomplish a macro ski area on Prahova Valley, Romania

Gábor Varga, Bertalan Radvánszky An interpretation on geomorphic levels of the Pécs Basin, Hungary

Matija Zorn, Gregor Kovačič, Miha Staut Sediment production in flysch badlands in SW Slovenia

Krzysztof Kiszka, Małgorzata Kijowska-Strugała Importance of splash in soil erosion in Bystrzanka catchment (Polish Flysch Carpathians)

Juraj Holec, Alžbeta Medveďová, Ladislav Vitovič GIS analysis of Hron river terraces with regard to Žiarska kotlina basin

19:00 Dinner

20:00–21:00 The Joint Council Meeting of the IAG/AIG CBDRWG (the last meeting of the working group) and the CBGC

26 June 2013

8:15-8:45 Keynote lecture (Chair: Jaromír Demek)

Milan Lehotský, Milan Frandofer Response of a mountain bedrock-alluvial river in flysh geological setting to contemporary environmental conditions (case study the Topľa River, Slovakia)

8:45–10:15 2nd Session – Fluvial geomorphology

8:45–9:00 Gábor Andrási, Tímea Kiss Human influence on channel and island development along the Dráva River Hungary – Croatia

9:00–9:15 Mariola Kędra

Assessing changes in dynamics of Carpathian rivers using spectral analysis

9:15–9:30 *Marta Łapuszek, Anna Lenar-Matyas, Joanna Korpak, Andrzej Mączałowski* The Raba River – the riverbed evolution in the past and new perspectives

9:30-9:45 Mateusz Sobucki

Riffle-pool sequences formation in seminatural gravel-bed river on the example of Wisłoka River in Beskid Niski Mts. (Poland)

9:45-10:00 Václav Stacke

Evolution of the Bečva river floodplain (Outer Western Carpathians) after the Holocene climatic optimum

10:15–10:45 Coffee break

10:45–12:15 3rd Session – *Slope processes*

(Chair: Miloš Stankoviansky)

10:45–11:00 *Delia M. Gheorghiu, Marcel Mindrescu* Surface exposure dating of rock slope failures in Northern Romania

11:00–11:15 Szabolcs Ákos Fábián Post-failure surface changing on a Danubian bluff in Dunaszekcső, Hungary

11:15–11:30 Jan Lenart, Tomáš Pánek Speleogenesis of crevice-type caves (Outer Western Carpathians)

11:30–11:45 Flavia-Luana Măguț (Marian), Ioan-Aurel Irimuş, Sorin Zaharia, Dănuț Petrea, Virgil Surdeanu, Ștefania Manea

Estimating regional landslide risk in the Baia Mare Depression, Northwestern Romania

11:45–12:00 *Veronika Smolková, Tomáš Pánek, Jan Hradecký* Late Holocene slope and fluvial processes Recorded in sedimentary archives in the Outer Western Carpathians (Czech Republic)

12:00–12:15 Olimpiu Pop, Anca Munteanu, Titu Anghel, Ionela Georgiana Gavrilă, Iulian-Horea Holobâcâ, Dănuț Petrea

Assessing the snow avalanche frequency in the Eastern part of Piatra Craiului Mountains (Romanian Southern Carpathians) by dendrogeomorphological methods

12:30–13:30 Lunch

14:00–18:00 half-day excursion – the Liptovská kotlina Basin Anna Kidová, Milan Lehotský

19:00 Festive dinner

27 June 2013

8:15–10:00 4th Session – Fluvial geomorphology

(Chair: Szabolcs Á. Fábián)

8:15–8:30 Małgorzata Kijowska-Strugała

Transport of suspended sediment in the Bystrzanka catchment (Polish Flysch Carpathians) under continually changing anthropopressure

8:30–8:45 *Małgorzata Kijowska-Strugała, Witold Bochenek* The dynamic of the concentration and transport of suspended and dissolved material in the Bystrzanka stream during different types of floods

8:45–9:00 Lenka Anstead

Using Radial Basis Function with a Multi-Quadric Option for observing changes in river channel morphology

9:00–9:15 Tamás Právetz, György Sipos, Orsolya Katona, Tímea Kiss, Petru Urdea, Ardelean Florina, Alexandru Onaca

Investigation of bed sediment household on the lowland section of River Maros, Romania-Hungary

9:15–9:30 Łukasz Wiejaczka

Geomorphological consequences of mountain reservoir operation (Klimkówka Reservoir, Polish Carpathians)

9:30–9:45 Ján Novotný

Channel bar dynamics and variability (the Váh River, Slovakia case study)

10:00–10:30 Coffee break

10:30–12:15 5th Session – *Miscellanea*

(Chair:Dénes Lóczy)

10:30–10:45 Zsófia Ruszkiczay-Rüdiger, Ágnes Novothny, Régis Braucher, Gábor Csillag, László Fodor, Edit Thamó-Bozsó

Chronology of Danube incision inferred by cosmogenic ¹⁰Be and luminescence ages

10:45–11:00 György Sipos, Szabolcs Ákos Fábián, Orsolya Tóth, Edit-Thamó Bozsó, János Kovács, Gábor Varga

Luminescence dating of sand wedges and the timing of Late Pleistocene permafrost in the Gödöllő Hills, Hungary

11:00–11:15 Veronika Staškovanová

Modeling of the Neogene to the Quaternary landscape evolution of the Tribeč Mts.

11:15–11:30 Andrej Mihevc

The age and evolution of the karst relief in the Dinaric Mountains - some examples from Slovenia

11:30–11:45 József Szeberényi, Szabolcs Á. Fábián, István Viczián Geomorphologic analysis of the Danube in Southeastern Börzsöny Mountains, Hungary

11:45–12:00 *Timea Kiss, Balazs Benyhe* Micro-forms created by lowland agriculture and their effect on overland flow

12:00–12:15 *Tibor József Novák, József Incze, Tibor Czene* Predictability of erosion gully-development based on relief, geomorphology and land use data

12:30-13:30 Lunch

14:00–15:45 6th Session - Miscellanea

(Chair: Petru Urdea)

14:00–14:15 *Robert Dobre, Florina Grecu, Laura Comănescu, Ionut Savulescu* Use a GIS techniques to identify areas to consider when design the first Romania railway basal tunnel

14:15–14:30 Jakub Šilhavý

Automated lines extraction from DEM to support geomorphologic interpretation

14:30–14:45 Ján Sládek, Miloš Rusnák

Low-cost aerial geomorphological mapping using micro UAVs

14:45–15:00 Piotr Kłapyta

Late Pleistocene deglaciation of the Žiarska Valley, Western Tatra Mountains, Slovakia

15:00–15:15 Peter Mida, Marek Křížek

New insight into the stratigraphy of moraines in Studené doliny Valleys, High Tatras, Slovakia

15:15–15:30 *Dominika Wrońska-Wałach, Kazimierz Krzemień, Elżbieta Gorczyca* Transformations of torrential fans during extreme rainfall events, on the example of Western Tatra Mts.

15:45–16:15 Coffee break

16:15–17:15 7th Session - Miscellanea

(Chair: Karel Natek)

16:15–16:30 *István Viczián, Balázs Nagy, Márton Deák, József Szeberényi* The Environmental and Hydrographical Reconstruction of the Area of Roman Brigetio (Komárom, Hungary)

16:30–16:45 *József Incze, Tibor József Novák* Geomorphological characteristic and significance of dry constructed terrace stone walls on abandoned vine-plantations in Tokaj Big-Hill

16:45–17:00 *Katalin Györgyövics, Tímea Kiss, György Sipos* Morphometry and aeolian activity of the sand dune area in Inner Somogy, Hungary

17:00–17:15 *Matija Zorn, Jaka Ortar, Blaž Komac* Extreme wind erosion from agricultural land in the Vipava Valley (SW Slovenia) in February 2012

17:20–18:20 2nd Poster Session (Chair: Karel Natek)

Ionela Georgiana Gavrilă, Titu Anghel A proposal for a geotouristic trail in Pricopan Ridge, Măcin Mountains (Dobrogea, Romania)

Alžbeta Medveďová, Roberta Prokešová, Miroslav Kardoš, Petr Tábořík Morphodynamic features of active slopes near Ľubietová: a role of tectonics in gravity deformation processes

Anca Munteanu, Narcisa Milian, Laura Comănescu, Alexandru Nedelea Extreme manifestations of debris flow-western slope of the Piatra Craiului Mountains (Romanian Carpathians). Case Studies, July 2009 and June 2012 Zofia Rączkowska, Michał Długosz, Ryszard J. Kaczka, Michał Kalafarski, Elżbieta Rojan Geomorphological aspects of snow avalanches activity in the Polish Tatras

Anna Bucała, Łukasz Wiejaczka

Contemporary human impact on the hydromorphological state of mountain streams (Polish Carpathians)

Bogdan Mihai, Ionut Savulescu, Robert Dobre

Geomorphic limitations and railway main line improvement and management. A case study on the Romanian Mainline 100

Marta Jurchescu, Carmen Dragotă, Ion Marinică, Florina Grecu Reconsidering rainfall thresholds for landslide occurrence events under scarce data constraints. Examples from a hilly area in South-Western Romania

Ştefania Manea, Virgil Surdeanu, Ioan-Aurel Irimuş, Dănuț Petrea, Flavia-Luana Măguț (Marian)

Natural risks generated by mass movement processes in the upper and middle sectors of the Strei valley

Sanda Roșca, Dănuț Petrea, Ioan-Aurel Irimuș, Iacob Ionuț Ciprian

Landslide Susceptibility Assessment Using Bivariate Statistical Analysis. Case Study: The Small Niraj River Basin (Transylvania Depression, Romania)

Lenka Anstead

Using Radial Basis Function with a Multi-Quadric Option for observing changes in river channel morphology

Péter Hernesz, Tímea Kiss, György Sipos

Late Glacial and Holocene floodplain development along the lower section of the Tisza River, Hungary

18:30–19:30 Plenary Session of the CBGC

19:30 Dinner

28 June 2013

7:00–20:00 1-day post-conference excursion – the High Tatra Mts. (the Morskie Oko Lake) and the Western Tatra Mts. (the Chochołowska dolina Valley)

Zofia Rączkowska, Michał Długosz, Joanna Fidelus, Piotr Kłapyta, Adam Kotarba, Eliza Płaczkowska

The excursion fee covers lunch and refreshment during the field excursion.

The excursion is held in any weather conditions! Please, take this into consideration. Good boots and warm clothes are recommended.

The arrival to the Conference venue is planned to be between 19:00 and 20:00.



Oral sessions

The allocated time for oral presentations is 15 minutes in total (excluding keynote lectures). This includes the time for the presenter to be introduced, the presentation itself and question time. The presenters will have access to a PC compatible (no Mac) laptop with an multimedia projector. Please, bring your PowerPoint presentation to the meeting on a flash drive or CD in order to load it into the in-room laptop. You will not be able to use your own laptop for your presentation. You can load your presentation to one of the conference laptop before the first session, or during the breaks preceding your presentation. There will be a support staff member in room to help you.

Poster sessions

Each poster will be allocated space of 93×100 cm. The preferred poster format is with the height larger than the width. It is advisable to hang the posters sometime before the poster session on the day of the respective session, if possible. You can have your poster hung during whole conference. Please, consult placement of your poster with the organizers during your registration.

Each poster will be shortly presented by author (max. 3 minutes). The presenters are kindly requested to be standing next to their posters until the end of each Poster Sessions (see the Final Programme for the exact timing).

Further information

English will be the official language of the Conference. Simultaneous translation services will not be available. It would be possible to publish papers, based on the presentations at the conference, in the *Studia Geomorphologica Carpatho-Balcanica* or *Geomorphologia Slovaca et Bohemica Journals*.

Conference venue

Congress Center Academia of the Slovak Academy of Sciences, Stará Lesná, Tatranská Lomnica, Slovakia – <u>http://www.hotelacademia.sk/</u>

The Congress Center (CC) Academia is situated at the foot of the Lomnický štít Peak in the eastern part of the Vysoké Tatry Mountains in Slovakia. It's located on the border of the Tatra National Park, in a quiet surrounding a short way off the towns Tatranská Lomnica and Starý Smokovec. An advantageous situation is supplemented by small distances from the airport and the major Slovak routes in Poprad (only 15 km), as well as by nearness of the architectonic jewels of Spiš region - Levoča, Kežmarok or Stará Ľubovňa.



Accommodation and catering information

The conference itself, accommodation and boarding would be arranged to take place in the Congress Centre Academia. No transfer to other facilities is required.



Room type	Price for 1 person/1 night
Double room	14,50 EUR
Single room (two beds)	28,50 EUR
Suite – double	16,50 EUR
Suite – single (two beds)	32,50 EUR
Extra bed (in any room)	8,50 EUR

Please, consider the single room booking. All rooms are double-bedded and the hotel capacity is limited. Therefore, will be able to satisfy your single room request only in the case of free space left.

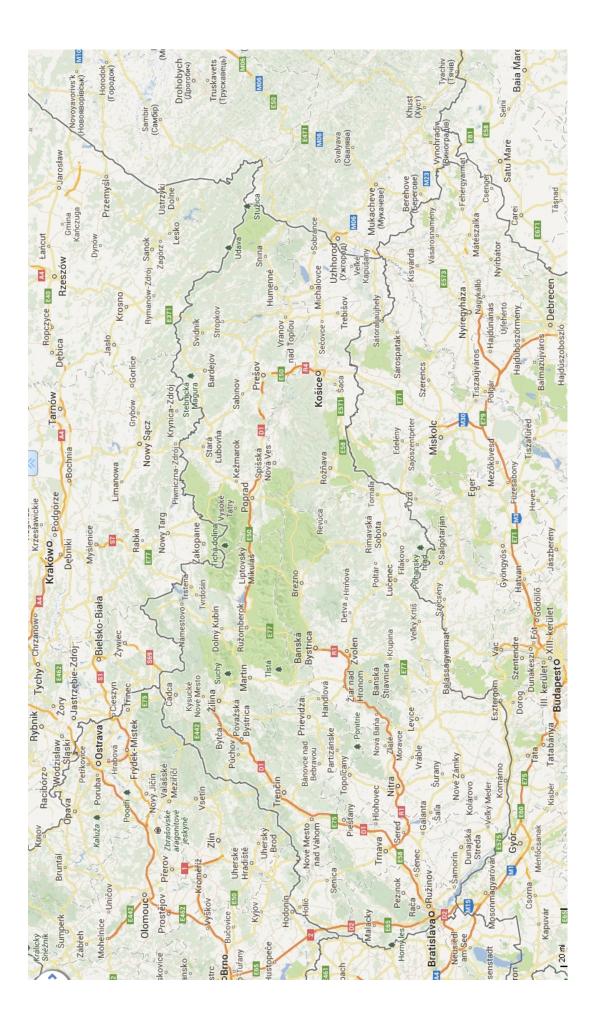
Breakfast – 5,60 EUR Lunch – 6,50 EUR Dinner – 6,50 EUR

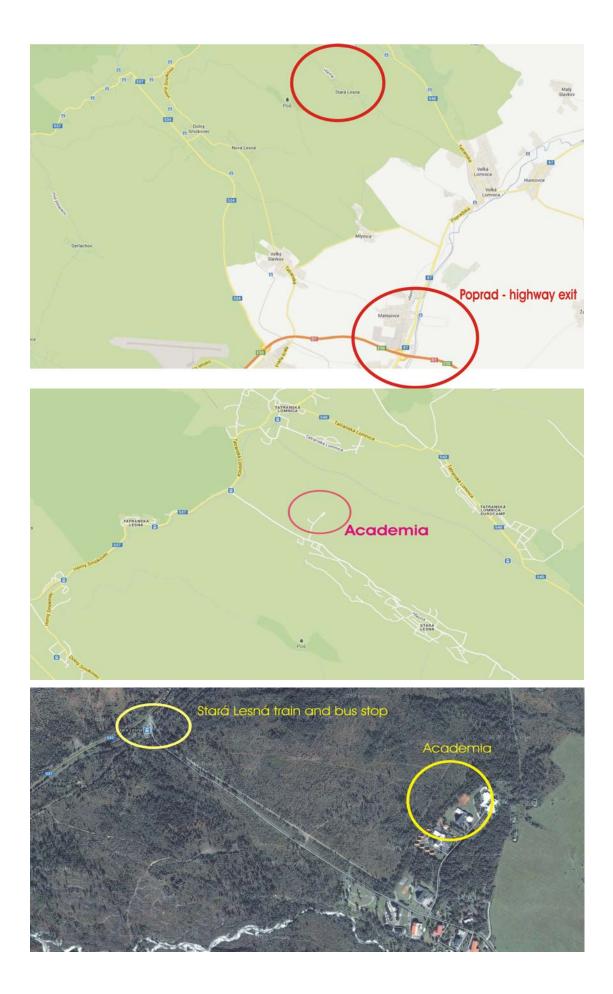
The accommodation and meals shall be paid at the Hotel reception desk. The CC Academia accepts payment by standard means: namely cash in Euro, or by credit cards (Visa, EuroCard, Mastercard, Amex, Diners).

How to get to the Conference Venue?

Hotel Academia – GPS: 49.151520, 20.287007

- by train from Poprad Tatry via Starý Smokovec (change at Starý Smokovec to Tatranská Lomnica and detrain at Stará Lesná). There is one connection per hour.
 For schedule go to: <u>http://www.eurorailways.com/timetable/</u>, more information could be found here: <u>http://www.tatryportal.sk/en/transport/ - &panel1-3</u>
- by bus from Poprad there are some direct buses from Poprad to different destinations, passing Stará Lesná, but we recommend you to use train because of easier orientation
- the conference venue is located 2 km far from the Stará Lesná railway station or bus station and it is easily accessible on foot (see enclosed figures)
- by car from Bratislava via Žilina Liptovský Mikuláš Poprad (highway exit POPRAD – VÝCHOD) – Veľká Lomnica – Stará Lesná (drive through the village and at the end turn right)
- by car from Košice via Prešov Levoča Poprad Veľká Lomnica
- by car from Kraków via Nowy Targ Bukowina Tatrzańska Podspády Ždiar Tatranská Kotlina –Tatranská Lomnica – Stará Lesná (before the beginning of the village turn left)
- car parking within the hotel complex is allowed free of charge
- in a case of any problem, please call to +421 904 284 607 or +421 903 121 689





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See you in the Tatra Mts.!