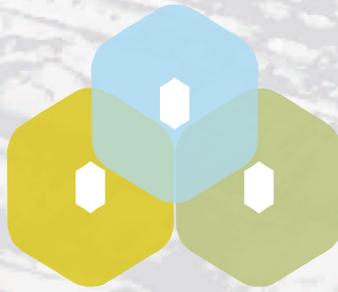




# 4<sup>th</sup> International Students Geological Conference



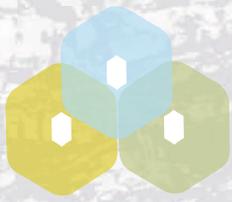
19<sup>th</sup> - 21<sup>st</sup> April 2013, Brno  
Czech Republic

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## 2<sup>nd</sup> Circular

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# INFORMATION

## INFORMATION FOR ACTIVE PARTICIPANTS

You may come and present your geological topic either in the form of an oral presentation or as a poster. For detailed information please look into the first circular and on the conference web site, section **Abstract and Presentation**.

Before you write the abstract, please study the abstract template and use it as a final format example. All the words used in abstract must be written in English alphabet including names of authors. Please be consistent when giving the name for all files accompanying the abstract text (pictures, tables etc.) according to the suggestion in the abstract template. You submit your abstract by sending the abstract in Microsoft Word version (e.g. Smith\_salt.doc) and PDF version (e.g. Smith\_salt.pdf), accompanied if necessary by pictures in JPG (e.g. Smith\_salt.jpg).

**Please send your abstract to the following email address**

isgc2013@gmail.com

**The deadline for abstract submission is 14<sup>th</sup> February 2013**

## INFORMATION FOR PASSIVE PARTICIPANTS

**In case you choose to become a passive participant**, you are not obligated to present either an oral presentation or a poster. Therefore you don't have to write an abstract. However, you can take part in the whole conference program (lectures or workshops, scientific sessions including refreshments as well as field trips.)

## INFORMATION ABOUT THE PAYMENT

Please consider that the payment must be made in the Shopping Center of the Masaryk University where you can purchase all items (registration fee, field trips, accommodation). Payment of **the registration fee realised by 20<sup>th</sup> February 2013 is 600 CZK (approx. 24 EUR)** and in the period **21<sup>st</sup> February - 20<sup>th</sup> March 2013 is 750 CZK (approx. 30 EUR)**.

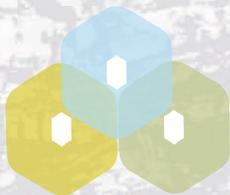
The price of **the hotel-type accommodation is 520 CZK/per night (approx. 21 EUR), including breakfast**. You may book more nights. Specify days you wish to be accommodated in your registration. Then buy one Accommodation packet in the Shopping Center for every night you booked.

The payment must be done in Czech crowns (CZK) only. However, you may pay by bank transfer or by credit card.

**To save money on the bank transfer we advise you to purchase and pay all items together, especially in case of external foreign payment.**

For more information please visit the conference web page.

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# COMMITTEE

ISGC 2013

## SCIENTIFIC COMMITTEE

Professor **Yves Géraud**, École Nationale Supérieure de Géologie, Université de Lorraine

Professor **Pavel Uher**, Department of Mineralogy and Petrology, Faculty of Natural Sciences, Comenius University in Bratislava

Associate Professor **Rostislav Melichar**, Department of Geological Sciences, Faculty of Science, Masaryk University

Associate Professor **Zdeněk Losos**, Department of Geological Sciences, Faculty of Science, Masaryk University

Associate Professor **Josef Zeman**, Department of Geological Sciences, Faculty of Science, Masaryk University

Associate Professor **Šárka Hladilová**, Department of Geological Sciences, Faculty of Science, Masaryk University

Associate Professor **Marek Slobodník**, Department of Geological Sciences, Faculty of Science, Masaryk University

Associate Professor **Martin Ivanov**, Department of Geological Sciences, Faculty of Science, Masaryk University

Dr. **Eva Geršlová**, Department of Geological Sciences, Faculty of Science, Masaryk University

Dr. **Stéphane Bodin**, Institute for Geology, Mineralogy and Geophysics, Ruhr-Universität Bochum

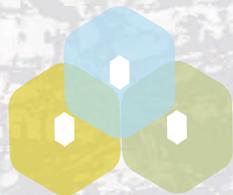
Dr. **Dalibor Všíanský**, Department of Geological Sciences, Faculty of Science, Masaryk University

M. Sc. **Martin Knížek**, Department of Geological Sciences, Faculty of Science, Masaryk University

Dr. **Michael Unterwurzacher**, Institute of Geography and Geology, University of Salzburg

## ORGANIZING COMMITTEE

Martin Knížek, Kateřina Žaludková, Pavel Pracný, Kateřina Švecová, Ivo Macek, Jan Loun, Tomáš Kumpan, Martin Hanáček, Vojtěch Wertich, Jan Petřík, Jarmila Pospíšilová, Pavla Filipská, Anoine Warin, Radana Malíková, Petra Jakobová, Radka Drápalová, Lenka Dziková, Šárka Benedová, Juraj Hrabovský, Vladimír Strunga.



# LECTURES AND WORKSHOPS

On Friday afternoon April 19<sup>th</sup> 2013 there will be a great opportunity to participate in lectures and a workshop in the Department of Geological Sciences of Masaryk University. Lectures are open to all participants, while the workshop capacity is limited to 25 people.

## **ACTIVATION ANALYSIS - USEFUL TOOL FOR MULTIELEMENT ANALYSIS IN GEOCHEMICAL AND COSMOCHEMICAL RESEARCH**

**Jiří Mizera**

*Nuclear Physics Institute of the Academy of Sciences of the Czech Republic*



## **ION MICROPROBE ANALYSIS OF GEOLOGICAL MATERIALS BY IBA (ION BEAM ANALYSIS)**

**Vladimír Havránek**

*Nuclear Physics Institute of the Academy of Sciences of the Czech Republic*



## **NEOGENE OF THE SOUTH MORAVIA (CZECH REPUBLIC)**

**Šárka Hladilová, Rostislav Brzobohatý, Nela Doláková**

*Department of Geological Sciences, Faculty of Science, Masaryk University, Brno  
Czech Republic*



## **PRODUCTION OF ZERO-VALENT IRON NANOPARTICLES (nZVI) FOR IN-SITU GROUNDWATER REMEDIATION INCLUDING RECENT FIELD SCALE APPLICATION**

**Kateřina Jašková**

*NANO IRON, S.R.O., Štefánikova 116, Rajhrad, Czech Republic*



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# WHICH FIELD TRIP?

The Field Trips planned on 21<sup>st</sup> April 2013 will provide many exciting geological experiences directly in the field. We decided to improve the programme of Field Trips 1 and 3. In each annotation, you can read the most important information about the programme and planned events. When you choose the field trip, please consider also the equipment requirements for some activities, especially in case of Field Trip 3.

## FIELD TRIP 1

### Archives of ancient marine environments at the contact of the Bohemian Massif and Western Carpathians

*Travel Plan: Brno - Sloup (Sloup-Šošůvka caves) - Šošůvka (Old Quarry) - Malý Chlum hill - Tuřold Quarry - Boleradice - Mušlov sandpit*

The excursion will provide information about typical Phanerozoic marine sequences in the Southern Moravia. Localities are planned to be visited according to the stratigraphic order from the oldest to the youngest successions. First part of the excursion will take place in the Bohemian Massif. There will be a possibility to observe the Upper Devonian reefoidal limestones with fossils such as corals or stromatoporoids in cave and on surface outcrops, Variscan flysch sequence comprises distal turbidites or Cretaceous siliciclastics with inoceramid bivalves etc. However, the second part of the excursion will be held in marine sediments of the Western Carpathians, south of Brno, the area famous for its vineyards. Mesozoic carbonate sequences in the Pavlovské vrchy Hills will be observed and the field trip will be closed up in a quarry near Mikulov where coralline limestones with rich fossil marine fauna are exposed.

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*Upper-Devonian Limestones close to the entrance of Sloup-Šošůvka caves*



*Upper-Jurassic and Upper Cretaceous limestones in the Tuřold quarry*



# WHICH FIELD TRIP?

## FIELD TRIP 2

### **Nedvědice-Rožná excursion profile - mineralogical and petrological localities on the boundary between Strážek Moldanubicum and Svatka Crystalline Complex**

*Travel Plan: Nedvědice - Pernštejn - Věžná - Rožná (Li-pegmatite) - Rožná I uranium mine*

Unique mineralogical and petrological localities occur in the valley of the Nedvědička river between Nedvědice and Rožná villages. Calcitic marble with typically blue calcite close to Nedvědice is accompanied by Ca-skarns and sulphide mineralisation. Metamorphosed turmalinites in mica schist, Fe-skarns in garnet mica schist are localised in the vicinity as well as an old serpentinite quarry. Moreover, the excursion continues in world-famous localities of pegmatites Věžná and Rožná. Desilicated beryl-columbite pegmatite with rare-elements mineralisation is exposed in Věžná. On the other hand, complex Li-pegmatite vein of lepidolite subtype lies in Rožná-Hradisko. It was mined in the past, but there is still a great chance to find many rare minerals. On top of that, the oldest active uranium mine on the world will be visited in Rožná. Therefore you will have a possibility to observe mining and processing of uranium ore.

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*Blue marble at Nedvědice quarry*



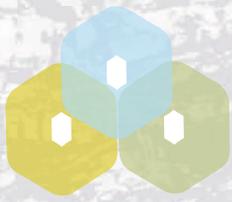
*Uranium mine Rožná I.*



*Magnesite vein at serpentinite quarry*



*Underground of Rožná I mine at 21<sup>st</sup> floor (1050 metres under the surface)*



# WHICH FIELD TRIP?

## FIELD TRIP 3

### Terrestrial and deltaic siliciclastic sediments in southeastern part of Bohemian Massif and in Carpathian Foredeep

*Travel Plan: Brno-Červený hill - Čebínka hill - Tišnov and Železné (old quarry) - Bačov- Luleč - Nemojany (old sandpit) - Býčí skála Cave and Barová Cave*

Excursion is oriented on terrestrial and deltaic sediments of eastern Bohemian Massif and contact zone with transgressive margin of Western Carpathians. The localities represent main sedimentary units in the vicinity of Brno: Basal Proterozoic to Lower-Paleozoic clastics, Culm of Dražanská vrchovina Highlands, variscian postorogenic Borkovice Furrow, and marginal Baden clastics of Carpathians Foredeep. There will be an unique opportunity to visit exclusively a newly uncovered Pleistocene profile with palaeontological excavation in Barová Cave and to enter Býčí skála Cave. Caves are with limited public access, so you will need your own light, solid shoes and a helmet. Please consider necessary equipment for the cave excursion:

- **helmet and headlamp**
- **hiking boots** and spare clothes suitable for caving (7°C a clayey soil, possibility of dirty clothes)

**If you don't have the helmet at your disposal, please inform the organizing committee**

[isgc2013@gmail.com](mailto:isgc2013@gmail.com)

**Other equipment is obligatory.**



*Entrance to the Býčí skála Cave*



*Nemojany - gravel and sandy foresets of fan delta (Carpathian Foredeep)*



*Bačov - a quarry in lacustrine silt and sandstone, rich in fossil material (Boskovice Furrow)*



# WHICH FIELD TRIP?

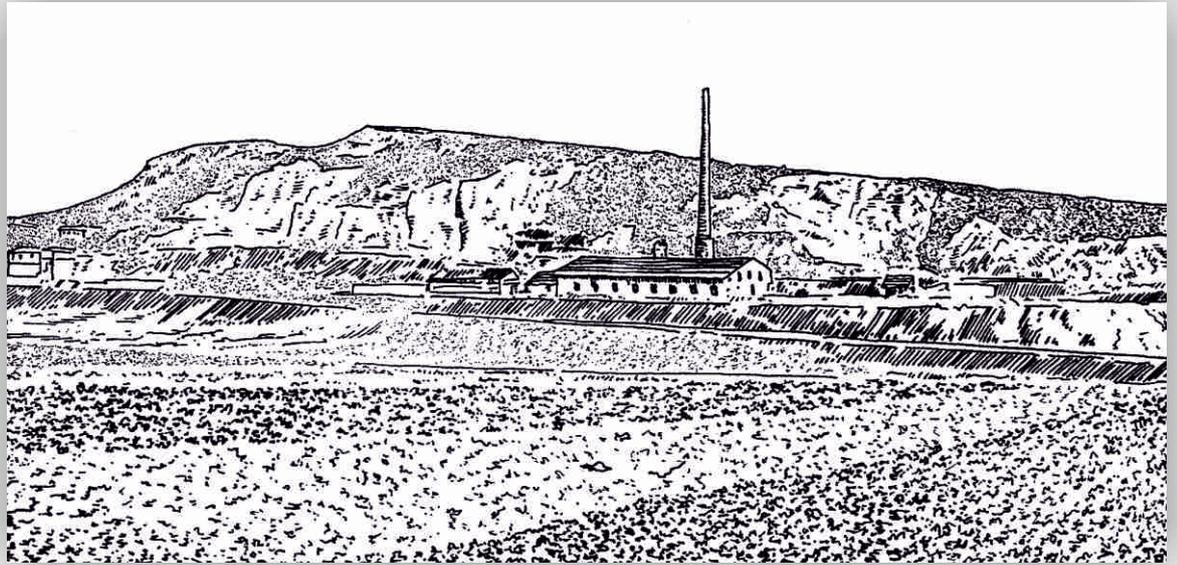
## FIELD TRIP 4

### Geological Brno City Tour: from proterozoic to quaternary rocks

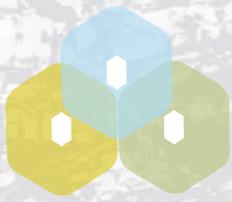
*Travel Plan: Brno - Stránská Rock - Hády (old quarry) - Špilberk Castle - Petrov hill - Brno city tour*

Brno city geological and historical richness will be presented, including proterozoic and paleozoic rocks, the oldest vulcanites in the Bohemian massif, old-red clastic sediments, Jurassic limestones. Quaternary human settlement, the oldest north of the Danube river, will be demonstrated as well as loess profile with sedimentary sequence including glacial periods. Prehistoric mining site Stránská Rock of chert material will be visited. Historical utilisation of geological material in building, especially in case of Špilberk Castle will be demonstrated. Old quarry Hády in Devonian limestones will provide interesting tectonic structures as well as palaeontological records.

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*Stránská Rock at the beginning of the 20<sup>th</sup> century. Drawn by T. Přichystal*



# HOW TO GET TO BRNO?

To help you to decide how to travel to the conference, you may consider following possibilities.

## BY PLANE

To arrive by plane, you may consider airports in **Prague**, **Bratislava** and **Vienna** with a high frequency of international and intercontinental flights. All are well accessible from Brno within two hours by bus or train.

The airport in **Brno Tuřany** offers regular flights to Milan Bergamo, London Stansted, London Luton, Eindhoven and Moscow Vnukovo. More information here: <http://www.brno-airport.cz/en/>.

If you arrive to **Prague**, **Bratislava** or **Vienna**, we advise you to travel by cheap and comfortable Czech busses of **Student Agency** (online reservation here: <http://bustickets.studentagency.eu/> or **Eurolines** (<https://www.elines.cz/en/>)).

## BY BUS

Many international bus companies go to the Brno City. We mention just two cheap Czech examples: Student Agency (<http://www.studentagency.eu>) and Eurolines (<https://www.elines.cz/en/>). These companies drive you directly into the city center, just next to the main intersection of public transport and the main railway station. Other international companies drive you to the main bus station Zvonařka the main city bus station, which is about 10 minutes from the city center.

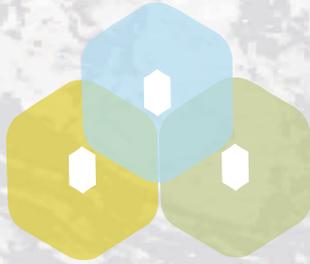
## BY TRAIN

Those who decide to travel to Brno by train please consider that the train is more expensive than the bus in the Czech Republic, especially for foreigners. However, journey is comfortable and less affected by possible traffic jam. More information about Czech trains: <http://www.cd.cz/en/default.htm>

## BY CAR

Travelling to Brno by car is easy thanks to the highway D1 on the way Germany - Prague and on the opposite side Poland - Ostrava. Moreover, highway D2 connects Brno with Bratislava (Slovakia) and Hungary.

The price of diesel is circa 35.50 CZK and petrol circa 35.30 CZK (January 2013).



# ISGC 2013



## WE ARE LOOKING FORWARD TO YOU JOINING US

 <https://www.facebook.com/ISGC13> 

<http://www.sci.muni.cz/isgc/>

3<sup>rd</sup> circular including a detailed programme and a session plan will  
be published on 20<sup>th</sup> March 2013



[www.segweb.org](http://www.segweb.org)

