

CZECH IGCP NATIONAL COMMITTEE

<http://igcp.cz/>



COMPREHENSIVE ANNUAL REPORT 2017

Prague 2017



CZECH IGCP NATIONAL COMMITTEE

<http://igcp.cz/>

COMPREHENSIVE ANNUAL REPORT

2017

Chairman:

RNDr. Radek MIKULÁŠ, CSc., DSc.
Institute of Geology of the Czech Academy of Sciences
Rozvojová 269
165 00 Prague 6
Czech Republic
phone: (+420)-233 087 219
fax: (+420)-220 922 670
e-mail: mikulas@gli.cas.cz

Secretary:

Mgr. Andrea Svobodová, Ph.D.
Institute of Geology of the Czech Academy of Sciences
Rozvojová 269
165 00 Prague 6
Czech Republic
phone: (+420)-233 087 246
fax: (+420)-220 922 670
e-mail: asvobodova@gli.cas.cz

Report Submission Date:

January 15th, 2018

Chairman Signature:

1. Czech IGCP National Committee (2016-2017)

Chairman: RNDr. Radek MIKULÁŠ, CSc., DSc. (Institute of Geology of the Czech Academy of Sciences)

Vice Chairman: Doc. RNDr. Stanislav OPLUŠTIL, Ph.D. (Faculty of Science, Charles University, Prague)

Secretary: Mgr. Andrea Svobodová, Ph.D. (Institute of Geology of the Czech Academy of Sciences)

2. Members of the Czech IGCP National Committee (2016-2017)

Doc. RNDr. Oldřich Fatka, CSc. (Faculty of Science, Charles University, Prague)

Doc. RNDr. Jindřich Hladil, DrSc. (Institute of Geology of the Czech Academy of Sciences, Prague)

RNDr. Leona Chadimová, Ph.D. (Institute of Geology of the Czech Academy of Sciences, Prague)

Doc. RNDr. Bohdan Kříbek, DrSc. (Czech Geological Survey, Prague)

RNDr. Štěpán Manda, Ph.D. (Czech Geological Survey, Prague)

RNDr. Radek Mikuláš, CSc., DSc. (Institute of Geology of the Czech Academy of Sciences, Prague)

Doc. RNDr. Stanislav Opluštíl, Ph.D. (Faculty of Science, Charles University, Prague)

RNDr. Jan Pašava, CSc. (Czech Geological Survey, Prague)

RNDr. Miloš René, CSc. (Institute of Rock Structure and Mechanics of the Czech Academy of Sciences, Prague)

Mgr. Andrea Svobodová, Ph.D. (Institute of Geology of the Czech Academy of Sciences, Prague)

Mgr. Stanislava Vodrážková, Ph.D. (Czech Geological Survey, Prague)

Ing. Martin Vrubel, Ph.D. (Severočeské Doly, a.s.)

RNDr. Anna Vymazalová, Ph.D. (Czech Geological Survey, Prague)

RNDr. Jaroslav Zajíc, CSc. (Institute of Geology of the Czech Academy of Sciences, Prague)

3. Number and title of projects in which the Czech Republic has participated

➤ **IGCP 637 – HERITAGE STONE DESIGNATION**

Duration: 2015-2019

Project Leader: Professor Dolores Pereira (Spain)

Czech Representatives: B. Dudíková Schulmannová (Barbora.dudikova@geology.cz)

The main activities and results of the project in 2017, with the summary of the whole project:

The main activity in 2017 consisted in organizing of educational excursions for students and members of SGA (The Society for Geology Applied to Mineral Deposits) Student Chapter Prague. The excursions were focused on decorative stones and deposits in the territory of the Czech Republic. Further activity consisted in a broadcast series of the Czech Radio nationwide station ČRo 3 – Vltava.

The field trips took place on 31. 3. 2017, 19. - 20. 2017, 2. - 5. 11. 2017 and 24. 11. 2017. The course and visited localities during the excursions will be present in more detail in the next SGA NEWS journal.

References

Dudíková Schulmannová, B. - Pertoldová, J. (2017): Mapy stavebních a dekoračních kamenů České republiky. Zborník abstraktov a exkurzný sprievodca otvoreného geologického kongresu 2017 Vysoké Tatry. – Mente et Malleo Spravodajca Slovenskej geologickej spoločnosti.

Dudíková Schulmannová, B. & Mikuláš, R. (2017): Z příběhů pražských kamenů [rozhlasový pořad]. Připravila Blanka Stárková. ČRo 3 - Vltava, 1.5.2017, 10:03-11.00. [The Stories of the Prague Stones – nationwide radio broadcast].

➤ **IGCP 640 – S4LIDE (SIGNIFICANCE OF MODERN AND ANCIENT SUBMARINE SLOPE LANDSLIDES)**

Duration: 2015-2020

Project Leaders: Dr. Lorena Moscardelli (USA)

Czech Representative: J. Stemberk (stemberk@irsm.cas.cz)

The main activities and results of the project in 2017:

Main work in 2017 was focused on the maintenance of a monitoring network on a megalandslide on El Hierro Island, Canaries, Spain. The monitoring network consists of three automated TM-71 3D dilatometers installed in the scarp area of the megalandslide. Additionally, a radonmeter was installed in a 900 m long gallery to monitor radon flux from the underground. Several rock samples were taken in the field (megalandslide detachment plane) in order to better understand the detachment plane petrology, perform cosmogenic He exposure dating and K/Ar analysis of fault gauge data. This data analysis is currently being processed. Fieldwork costs were covered by the Junior grant project of the Czech Science Foundation (GA16-12227Y).

➤ **IGCP 649 – DIAMONDS AND RECYCLED MANTLE**

Duration: 2015-2019

Project Leaders: J. Yang (China), Y. Dilek (USA), W.L. Griffin (Australia), P.T. Robinson (Canada), I. Milushi (Albania), M.M. Abu Anbar (Egypt)

Czech Representative: Jana Kotková (jana.kotkova@geology.cz)

The main activities and results of the project in 2017:

In 2017, two conference lectures related to the IGCP 649 project were carried out:

Kotková J., Fedortchouk Y., Wirth R., Whitehouse M., Jakubová P. (2017): UHP-UHT melting and diamond formation. Goldschmidt Conference, Paris, 13.-18.8.2017

Kotková J., Čopjaková R. (2017): Kinoshitalite-bearing multiphase solid inclusions in garnet in peridotites – evidence for crust-mantle interaction in deep subduction zone environment. IEC12, Are, Sweden, 20.-29.8.2017.

➤ **IGCP 653 – THE ONSET OF THE GREAT ORDOVICIAN BIODIVERSIFICATION EVENT**

Duration: 2016-2020

Project Leader: Thomas Servais (France)

Czech Representative: O. Fatka (fatka@natur.cuni.cz)

The main activities and results of the project in 2017:

Fossil sites of the Šárka Formation were re-visited, and a newly obtained material from fossil collectors was studied with the aim to find, describe and interpret interactions between body- and trace-fossils. The example of a gastropod shell reached by a vertical shaft belongs to intriguing ones; it provides several proposed scenarios showing an excellent ability to in-faunal scavengers to search for a food. A poorly known ichnogenus *Brdichnus* Mikuláš, 1992 was found in contact with common shell fragments; it points to its interpretation as the recently established ethological category, *sequestrichnia*.

Reference

Mikuláš, R. – Kadlecová, E. (presented 2017): Interakce mezi ichnofosiliemi, schránkami tělesně zachovalých fosilií a litologií v šáreckém souvrství (ordovik, Barrandien, Česká republika) - The interactions between ichnofossils, body fossils and lithology from the Ordovician of the Barrandian area (Šárka Fm., Czech Republic). Zpr. Geol. Výzk. 2017. Praha.

5. Sponsors of IGCP projects in the Czech Republic in 2017:



SEVEROČESKÉ DOLY, a.s.

Boženy Němcové 5359
430 01 Chomutov, Czech Republic
Tel. (+420) 474 602 111
Fax (+420) 474 652 264
E-mail: sdas@sdas.cz
www.sdas.cz



SMP CZ, a. s.

Vyskočilova 1566
140 00 Praha 4-Michle, Czech Republic
Tel. (+420) 222 185 111
Fax (+420) 222 325 292
E-mail: ou@smp.cz
www.smp.cz



EUROVIA CS, a.s.

Odštěpný závod oblast Čechy západ
Lobezská 1191/74
326 00 Plzeň, Czech Republic
Tel. (+420) 376 901 255
Fax (+420) 376 901 272
E-mail: eurovia-plzen@eurovia.cz
www.eurovia.cz



KOTOUČ ŠTRAMBERK, s.r.o.

Libotín 500
742 66 Štramberk, Czech Republic
Tel. (+420) 556 873 111
Fax (+420) 556 852 711
E-mail: podatelna@kotouc.cz
www.kotouc.cz



VRŠANSKÁ UHELNÁ, a.s.
V. Řezáče 315
434 67 Most, Czech Republic
E-mail: mail@vuas.cz
www.vrsanskauhelna.cz



GIS-GEOINDUSTRY, s.r.o.
Na Roudné 29/438
301 65 Plzeň, Czech Republic
Tel. (+420) 377 259 687
Fax (+420) 377 259 687
E-mail: gisgeo@post.cz
www.geindustry.cz