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ÖAW AUSTRIAN ACADEMY OF SCIENCES

NOVEMBER 11-12, 2022
FESTSAAL, OEAW
DR. IGNAZ SEIPEL-PLATZ 2
1010 VIENNA

SYMPOSIUM

HIGHLIGHTS OF GEOSCIENTIFIC CAVE RESEARCH

VÖH

universität innsbruck

nhm naturhistorisches museum wien

COMMISSION FOR GEOSCIENCES

PROGRAM

FRIDAY, NOVEMBER 11

OVERVIEW PRESENTATIONS OF KEY ASPECTS

13:00–13:15 *Opening*
Christian Köberl | Commission for Geosciences
Christoph Spötl | Commission for Geosciences

13:15–13:45 **Jo de Waele** | University of Bologna, Italy
A tale of raindrops, soluble rocks, and the creation of caves

13:45–14:15 **Nico Goldscheider** |Karlsruhe Institute of Technology, Karlsruhe, Germany
Karst and water

14:15–14:45 **Stacy Carolin** | Cambridge University, Cambridge, UK
Rainfall and temperature change captured in speleothem layers: field highlights and future outlook

14:45–15:15 **Victor Polyak** | University of New Mexico, Albuquerque, USA
The contribution of speleogenesis to the history of Grand Canyon

15:15–15:45 BREAK

15:45–16:15 **Darryl E. Granger** | Purdue University, West Lafayette, USA
Cosmogenic nuclide burial dating of cave sediment: applications to speleogenesis, landscape evolution, and human evolution

16:15–16:45 **Oana A. Dumitru** | Lamont-Doherty Earth Observatory, Columbia University, Palisades, USA
Caves and past sea-level fluctuations

16:45–17:15 **Jacek Szczygieł** | University of Silesia, Sosnowiec, Poland
Moving walls: neotectonic and paleoseismic studies in caves

17:15–17:45 **Dirk Hofmann** | University of Göttingen, Germany
Cave canvas – Palaeolithic cave art research

17:45 REFRESHMENTS

SATURDAY, NOVEMBER 12

HYPOGENE SPELEOGENESIS

8:30–9:00 **Alexander Klimchouk** | National Academy of Sciences of Ukraine, Kiew, Ukraine)
Hypogene karst: principal features and implications to geosciences

9:00–9:30 **Ilenia D'Angeli** | University of Padua, Italy
Multidisciplinary approaches to determine sulfuric acid speleogenesis

9:30–10:00 **Stephan Kempe** | Technical University of Darmstadt, Germany
Hypogene speleogenesis in the Harz Mountains (Germany)

10:00–10:30 BREAK

10:30–11:00 **Marjan Temovski** | Isotope Climatology and Environmental Research Centre, Debrecen, Hungary
Stable isotopes in hydrothermal carbonic speleogenesis

11:00–11:30 **Yuri Dublyansky** | University of Innsbruck, Austria
Hypogene karst and uranium mineralisation in Kyrgyzstan

11:30–12:00 **Philippe Audra** | University of Nice Sophia-Antipolis, Nice, France
Hypogene speleogenesis - Origin of caves through deep water rising

Caves provided shelter to our ancestors in prehistoric times, allow access to drinking water resources for about 2 billion people, and attract millions of tourists around the world. The International Year of Caves and Karst (2021–2022) has shone a spotlight on these lightless worlds hidden in the mountains and beneath our feet in order to raise public awareness of their unique importance to society.

Following a successful symposium on the exploration of caves in 2021, this second two-day symposium provides an overview of the latest developments and highlights in the geoscientific study of caves and karst. International experts from various disciplines in the geosciences and related fields will give keynote lectures aimed at a broad audience. The second half day of this event will focus on an emerging research topic in cave science, the origin of hypogene caves — cavities which have developed from rising groundwater.

ORGANISERS

Christoph Spötl, Commission for Geosciences, Austrian Academy of Sciences
Lukas Plan, Natural History Museum Vienna
Yuri Dublyansky & Gabriella Koltai, University of Innsbruck

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REGISTRATION

https://www.oeaw.ac.at/geok/detail/event/highlights-of-geoscientific-cave-research

INFORMATION

Please note that photographs may be taken throughout the event. These will be used by the organizing institution in publications, online and in social media. Please contact the event organizer if you have any concerns or if you wish to be exempted from this activity.

Cover image: Calcite crystals - partly back-lit - cover the walls of Surprise cave in Kyrgyzstan.