

25. Međunarodni simpozij o špiljskim medvjedima u Nacionalnom parku Paklenica, 18. – 22. rujna 2019.

25th International Cave Bear Symposium at the National park Paklenica, 18th – 22nd September 2019

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Međunarodni simpozij o špiljskim medvjedima pokrenut je prije 25 godina kako bi stručnjaci za pleistocenske sisavce dobili priliku razmijeniti i dijeliti nova znanstvena otkrića. Prijašnji domaćini s visokim međunarodnim sudjelovanjem bili su, između ostalih, Švicarska, Italija, Austrija, Grčka, Rumunjska i Njemačka.

2019. godine Simpozij je održan u Nacionalnom parku Paklenica, od 18. do 22. rujna, a domaćini su bili Nacionalni park Paklenica i Hrvatska akademija znanosti i umjetnosti. Predavanja, rasprave i poster prezentacije o svojim istraživanjima održalo je 46 znanstvenika, u izvanrednom i neobičnom mjestu održavanja, posjetiteljskom centru "Podzemni grad Paklenice".

Teme predavanja:

- Kazimir Miculinić: "Gornja Baračeva špilja cave - from the paleontological excavation to the presentation centre"
- Federica Alberti: Investigation of the mitochondrial phylogeny of the small body size cave bears
- Susanne Münzel: Comparing the cave bear diet through tooth microwave analysis upon several Late Pleistocene sites in Southwest and Central Europe
- Martina Roblickova: The comparison of faunal assemblages from several "bear caves" of the Moravian Karst (Czech Republic)
- Gabriele Terlatto: A long history of bears-human interaction in Northern Italy: hunting and subsistence strategies during Middle and Upper Palaeolithic
- Michael Hofreiter: 20 years of ancient DNA research on cave bears
- Ales Plichta: Teeth morphometry of cave bear from the Barová Cave in the Moravian karst (Czech Republic)
- Bogdan Ridush: New species from the bone accumulation in Perlyna cave (Ukrainian Carpathians)
- Martina Pacher: The three eastern Swiss bear caves in a broader Alpine context
- Doris Döppes: ICBS 2020

Poster prezentacije:

- Jasminko Mulaomerović: A survey of cave bears research in Bosnia and Herzegovina
- Gernot Rabeder, Döppes Doris, Sebastian Krutter, Christine Frischauf, Nadja Kavcik-Graumann: The fossil cave bears of Torrén (Torrener Bärenhöhle, Province Salzburg, Austria)
- Wilfried Rosendahl, Sarah-Nelly Friedland, Gaëlle Rosendahl & Doris Döppes: An exhibition that will leave nobody cold! „Ice Age Safari“ in Leoben (Styria, Austria)
- Julia Stockhammer, Nadja Kavcik-Graumann et Gernot Rabeder: The fossil bears from Hennenkopf cave (Steinernes Meer, Province Salzburg, Austria)

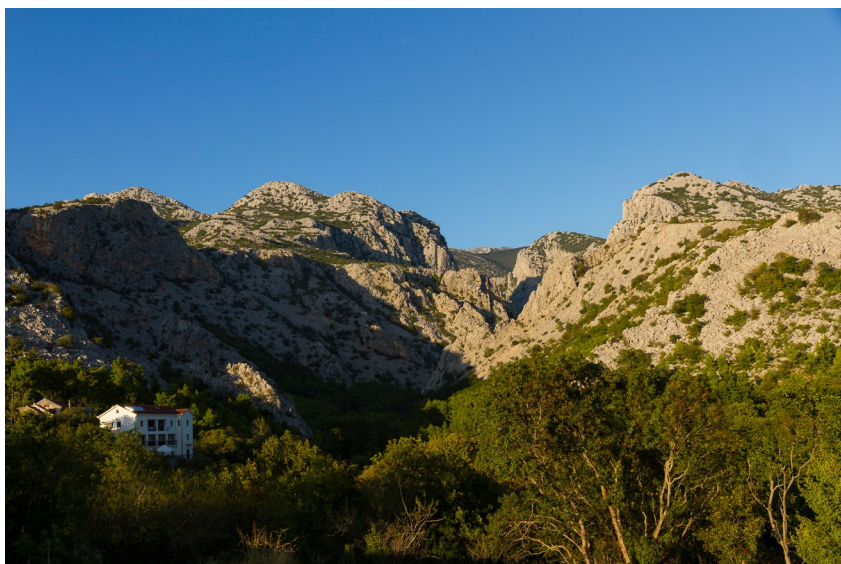


Foto: Gerhard Withalm

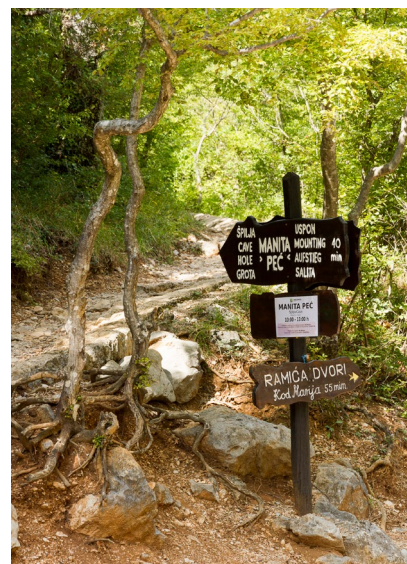


Foto: Gerhard Withalm

- Alain Argant, Lionel Barriquand et Jacqueline Argant: The bears of Azé 1 Cave (Saône-et-Loire, France)
- Doris Nagel, Doris Döppes et Gernot Rabeder: The Schwaiger cave near Mixnitz (Styria, Austria)
- Juraj Gullar, Martin Sabol: Carnivoran Wars: Can conflicts between tigers and bears indicate a possible antagonism between cave lions and cave bears?
- Monika Alscher, Martina Traindl-Prohazka, Gernot Rabeder: Middle and Upper Paleolithic human tools and traces in caves of the Totes Gebirge (Upper Austria and Styria)
- Ľuboš Balko, Erik Ersmark, Jacopo Conti, Martin Sabol: The earliest record of modern brown bear (*Ursus arctos arctos* LINNÆUS, 1758) from Slovakia

Tijekom dvodnevnog izleta, sudionici su, uz geologiju i paleontologiju regije, istražili i njenu floru i faunu. Prvog dana grupa je vođena kroz Nacionalni park Paklenica do Manite

peći, impresivne špilje s velikim dvoranama bogato ukrašenima stalagmitima i stalaktitima, na nadmorskoj visini od 570 m.

Večer prvog dana odvela je grupu na izlet u Zadar, u posjetu Arheološkom muzeju i njegovim zbirkama iz kamenog i metalnog doba, sve do rimskog i bizantskog razdoblja u 15. stoljeću.

Kuća Velebita, informacijski centar Nacionalnog parka Sjeverni Velebit, smještena u Krasnu, omogućila je sudionicima simpozija atraktivan uvid u geologiju, špilje, staništa, klimu i kulturnu baštinu Nacionalnog parka.

U Pećinskom parku Grabovača sudionici su posjetili jednu od devet špilja, bogato ukrašenu stalagmitima i stalaktitima.

Tijekom Simpozija, jedan od začetnika Simpozija, prof. dr. Gernot Rabeder, proslavio je svoj 80. rođendan te je njemu u čast izdana jubilarna publikacija: Festschrift zum 80. Geburtstag von emer. Univ.-Prof. Dr. Mag. Gernot Rabeder, Berichte der Geologischen Bundesanstalt Nr. 132, kojoj se može pristupiti na poveznici: <https://www.geologie.ac.at/produkte-shop/textpublikationen/zeitschriften/berichte-der-geologischen-bundesanstalt/>



Lubanja špiljskog medvjeda | Foto: Hrvoje Cvitanović

Zahvaljujemo se za priliku da organiziramo 25. Međunarodni simpozij o špiljskim medvjedima u Nacionalnom parku Paklenica. Želimo se zahvaliti Javnoj ustanovi Nacionalni park Paklenica i Hrvatskoj akademiji znanosti i umjetnosti za njihovu podršku. Posebno hvala Gordanu Lukaču, na iznimnoj pomoći s organizacijom Simpozija te vodičima i osoblju nacionalnih parkova i institucija koje smo posjetili, a koji su nam odlično predstavili posebnosti špilja, krajobraza i povijesti Hrvatske.



Predavanje o paleontološkim nalazima u Baračevim špiljama drži Tihana Oštrina, ravnateljica Javne ustanove za upravljanje zaštićenim prirodnim vrijednostima na području općine Rakovica | Foto: Hrvoje Cvitanović

The International Cave Bear Symposium was initiated 25 years ago to give experts in Pleistocene mammals the possibility to exchange and share new scientific insights.

Previous venues with high international participation were, among others, Switzerland, Italy, Austria, Greece, Romania and Germany.

In 2019 the symposium took place at the National Park Paklenica from the 18th to the 22nd September, hosted by the Public Institution Paklenica National Park and the Croatian Academy of Sciences and Arts.

46 scientists were invited to present their research in several talks, poster presentations and discussions at an extraordinary and spectacular place, the presentation center in the "Underground secrets of Paklenica".

Topics of the talks:

- Kazimir Miculinic: "Gornja Baračeva špilja cave - from the paleontological excavation to the presentation centre"
- Federica Alberti: Investigation of the mitochondrial phylogeny of the small body size cave bears

- Susanne Münzel: Comparing the cave bear diet through tooth microwave analysis upon several Late Pleistocene sites in Southwest and Central Europe
- Martina Roblickova: The comparison of faunal assemblages from several "bear caves" of the Moravian Karst (Czech Republic)
- Gabriele Terlatto: A long history of bears-human interaction in Northern Italy: hunting and subsistence strategies during Middle and Upper Palaeolithic
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- Martina Pacher: The three eastern Swiss bear caves in a broader Alpine context
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Poster topics:

- Jasminko Mulaomerović: A survey of cave bears research in Bosnia and Herzegovina
- Gernot Rabeder, Döppes Doris, Sebastian Krutter, Christine Frischauf, Nadja Kavcik-Graumann: The fossil cave bears of Torrén (Torrener Bärenhöhle, Province Salzburg, Austria)
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- Julia Stockhammer, Nadja Kavcik-Graumann et Gernot Rabeder: The fossil bears from Hennenkopf cave (Steinernes Meer, Province Salzburg, Austria)
- Alain Argant, Lionel Barriquand et Jacqueline Argant: The bears of Azé 1 Cave (Saône-et-Loire, France)



Prezentacija postera | Foto: Hrvoje Cvitanović

- Juraj Gullar, Martin Sabol: Carnivoran Wars: Can conflicts between tigers and bears indicate a possible antagonism between cave lions and cave bears?
 - Luboš Balko, Erik Ersmark, Jacopo Conti, Martin Sabol: The earliest record of modern brown bear (*Ursus arctos arctos* LINNÆUS, 1758) from Slovakia
 - Doris Nagel, Doris Döppes et Gernot Rabeder: The Schwaiger cave near Mixnitz (Styria, Austria)
 - Monika Alscher, Martina Traindl-Prohazka, Gernot Rabeder: Middle and Upper Paleolithic human tools and traces in caves of the Totes Gebirge (Upper Austria and Styria)
- In two days of excursion the participants explored not only the geology of the region and its palaeontological findings, but also the fauna and flora of the area. On the first day a guided tour led the group through the National Park Paklenica to Manita peč at an altitude of 570 m a.s.l., an impressive cave with broad



Zajednička fotografija sudionika simpozija | Foto: Gerhard Withalm

chambers and rich decoration of stalagmites and stalactites.

In the evening of this day the group made an excursion to Zadar to visit the Archaeological Museum with its collections from the Stone Ages, Metal Ages over Roman and Byzantine periods to the 15th century.

The Velebit House, the information center to the Northern Velebit National Park, located in the village of Krasno gave the visitors an attractive overview of the geology, the caves, habitats, climate and cultural heritage of the National Park.

At the Cave park Grabovača the participants of the ICBS got the opportunity to visit one of the nine caves with its rich decoration of stalactites and stalagmites.

During the symposium one of the first initiators of the ICBS, Univ. Prof. Dr. Gernot Rabeder celebrated his 80th birthday and was honoured with a jubilee publication: Festschrift zum 80. Geburtstag von emer. Univ.-Prof. Dr. Mag. Gernot Rabeder, *Berichte der Geologischen Bundesanstalt* Nr. 132, which can be downloaded here: <https://www.geologie.ac.at/produkte-shop/textpublikationen/zeitschriften/berichte-der-geologischen-bundesanstalt/>

We are very thankful for the opportunity to organize the 25th International Cave Bear Symposium at the National Park Paklenica. We want to thank the Public Institution Paklenica National Park and the Croatian Academy of Sciences and Arts for their support. Our special thanks go to Gordan Lukač, who was incredibly helpful with organizing the symposium and all the guides and staff of the National parks and institutions we visited, who did a great job to introduce us to the peculiarities of the caves, landscape and history of Croatia.