

11TH INTERNATIONAL

CRETACEOUS SYMPOSIUM

Warsaw, Poland, 2022

August 22-26

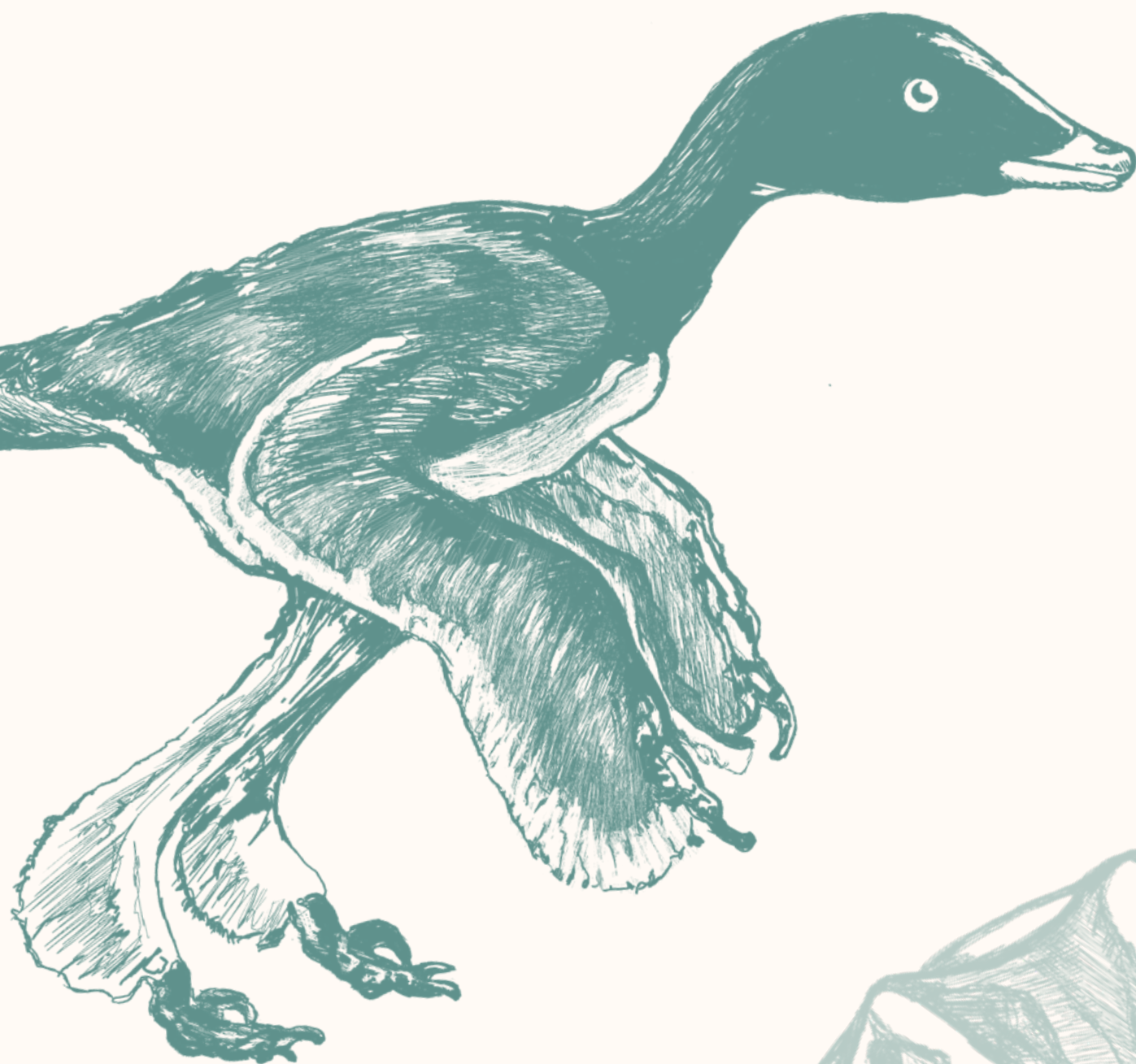
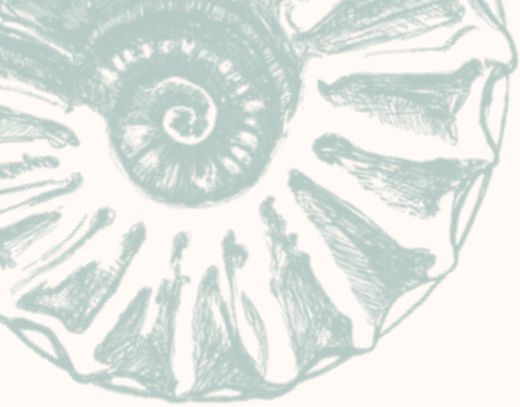
200th Anniversary of the Cretaceous System





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Dear Colleagues,

Due to the COVID-19 pandemic, the 11th International Cretaceous Symposium, which was originally planned to occur in 2021 as decided during the final session of the Vienna Symposium (2017), was postponed. One year later, the situation has not changed dramatically. However, we are hopeful that circumstances will improve over the coming year, and we do hope to have you all here, in Warsaw, in-person, next year.

As such, we cordially invite you to participate in the 11th International Symposium on the Cretaceous, which is scheduled for August 22–26, 2022, in Warsaw, Poland. This conference is intended to bring together researchers working on a range of topics pertaining to the Cretaceous, continuing a rich international tradition of such symposia.

The year 2022 is also the 200th Anniversary of the Cretaceous System. Our meeting will be an excellent occasion to celebrate this extraordinary late Mesozoic time.

Please mark your calendars and spread the information about this meeting among your colleagues and friends. The conference website (www.Cretaceous2022.com) will be progressively updated with relevant information, including – but not limited to – session proposals, workshops, and conference field trips.

With kind regards,

Ireneusz Walaszczyk, Jacek Grabowski, Agata Jurkowska, Piotr Krzywiec, Marcin Machalski, Zbigniew Remin, Jordan Todes, Alfred Uchman and Jurand Wojewoda

on behalf of the organizers



VENUE



THE UNIVERSITY OF WARSAW

New Library

The new University of Warsaw Library is a building of surprising diversity, fusing the functionality of a modern library with the atmosphere of an old town. Abutting the Vistula embankment, it encapsulates European culture while retaining a distinct Mazovian heritage.

The interior of the building is stunning, centered around a three-story monumental 'Passage' leading to the library itself, and open spaces connecting reading halls, resting places, and the books themselves. Our lecture halls directly face rows of bookshelves containing massive collections of books and magazines from around the world. There are also numerous shops, cafes, and art galleries on the library premises.

The roof of the library hosts one of the largest, most beautiful rooftop gardens in Europe, and is an attractive resting place for students and tourists alike. From the roof, visitors can admire both the Varsovian skyline and the Vistula River. The garden is immersed in a profusion of vibrant plants: yellow, pink, red and orange flowering shrubs, silver-leaved willows, white blooming *Dasiphora fruticosa*, and dwarf pines, among many others. The walkways, paths, bridges, and pergolas traversing the garden are hidden within an assortment of vines and climbing hydrangea, providing a scene of solitude and nature within the bustling University of Warsaw campus.

The majority of the symposium will be hosted here, in the new library.

THE UNIVERSITY OF WARSAW

Old Library

This is an iconic building of the University of Warsaw: initially built in 1894, at the beginning of the 21st century it was fully renovated into a modern lecture and conference centre. [During World War II, Czesław Miłosz, the 1980 Nobel laureate in Literature, worked here as a janitor.] We will meet here for the Opening Ceremony.



ECEG

European Geological Education Center in Chęciny

ECEG is the University of Warsaw's geologic field center, built within an abandoned Devonian dolomite quarry in the medieval town of Chęciny, in the heart of the Góry Świętokrzyskie (the Holy Cross Mountains). With state-of-the-art geological laboratories, lecture rooms, hotel accommodations, and all of the other facilities that may be useful for comfortable field work, it is a perfect place to carry out student field camps and geologic research. ECEG will serve as the base for some of our field trips, and host many of the pre- and post-conference workshops.

COMMITTEES

Scientific Committe

| | | | |
|--|----------------|--|----------------|
| Beatriz Aguirre-Urreta Universidad de Buenos Aires | Argentina | Eduardo Koutsoukos Universität Heidelberg | Germany |
| Evgenij Baraboshkin Lomonosov Moscow State University | Russia | Neil Landman American Museum of Natural History | USA |
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| Ian Jarvis Kingston University London | UK | Otilia Szives Hungarian Natural History Museum | Hungary |
| Jim Kennedy University of Oxford | UK | Reishi Takashima Tohoku University | Japan |
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| Martin Košťák Charles University Prague | Czech Republic | Silke Voigt Goethe University Frankfurt | Germany |
| | | Michael Wagreich University of Vienna | Austria |
| | | Markus Wilmsen Senckenberg Naturhistorische Sammlungen Dresden | Germany |

Organizing Committee

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University of Chicago USA

Alfred Uchman

Jagiellonian University Poland

Jakub Witkowski

University of Szczecin Poland

Jurand Wojewoda

University of Wrocław Poland

Elena Yazykova

University of Opole Poland

SCIENTIFIC SESSIONS



The scientific sessions of the Symposium will encompass a broad variety of topics linked to the Cretaceous, including – but not limited to - the history of the Cretaceous System, life, palaeontology, palaeobiogeography, paleoenvironments, stratigraphy, geophysics and geodynamics, regional geology, and mineral resources. The following list is a preliminary compilation of potential sessions: this does not necessarily correspond to the final program [sessions will be added and modified according to the interests of the attendees]. Session and workshop proposals from conference attendees, scientific commissions, organisations, and industry partners will be carefully considered to form an attractive, scientifically rich, and fruitful event. We encourage you to contact us regarding potential topical sessions and workshops.

200th Anniversary of the Cretaceous System

Cretaceous Geoparks and World Heritage

Global Boundary Stratotype Sections and Points (GSSPs) of the Cretaceous System

Cretaceous Geochemistry: open session

Cretaceous Chemostratigraphy

Cretaceous Geochronology and Timescales

Cretaceous Astrochronology and Cyclostratigraphy

Cretaceous Palaeontology: open session

Cephalopod palaeobiology and stratigraphy

Lower Cretaceous ammonites
(Kilian Group meeting)

Cretaceous vertebrates

Cretaceous micropaleontology

Cretaceous palynology

Palaeobotany and terrestrial palaeoenvironments

Fossil-Lagerstätten

Cretaceous trace fossils

Cretaceous geophysics and tectonics:
open session

Geodynamics of Cretaceous sedimentary basins

Cretaceous palaeoenvironment, paleoclimate, and
paleoceanography

Cretaceous regional geology: open session

Cretaceous mineral and petroleum deposits

CONFERENCE EXCURSIONS



PRE-CONFERENCE EXCURSION (3 DAYS):

Late Cretaceous Geodynamics of the Sudetes area in the sedimentary record

The northern periphery of the Bohemian Massif, including the Sudetes, is characterized by (1) local variation in the timing of marine transgression in response to dramatic differences in the underlying geological substrate and topography, (2) a large range of lithologic variation within the Cretaceous sediments, and (3) a clear sedimentary record of syndepositional geodynamic activity. During the Cretaceous, this area was divided into several sub-basins with well-defined tectonic frames, often with pull-apart structures driven by the regional strike-slip dextral geodynamic regime dominant throughout its post-Variscan history. The Cretaceous deposits in the Sudetes represent an excellent example of the interaction of global, regional, and local processes on sedimentation.

Led by Jurand Wojewoda, Alina Chrzęstek and Stanisław Leszczyński.

PRE-CONFERENCE EXCURSION (3 DAYS):

*Tatra Mts and
Pieniny Klippen Belt:
Cretaceous sediments
at the southern margin
of the Vahic (Penninic)
ocean.*

The field trip aims to explore the Cretaceous sediments of the Western Carpathians, deposited in variegated tectonic settings: from pelagic and carbonate platform in the uppermost Jurassic/Lower Cretaceous to synorogenic marls and clastics in the Upper Cretaceous. You will see the beautiful landscapes of the southernmost tip of Poland with Alpine-type mountains, picturesque klippen and alps.

Led by: Jacek Grabowski, Michał Krobicki, Alfred Uchman.



PRE-CONFERENCE EXCURSION (2 DAYS):

Turonian-Coniacian of the Opole Cretaceous.

This field trip will lead participants to the enormous Folwark quarry in Opole, where almost the entire so-called “Opole Cretaceous” is well-exposed. These strata – largely marls and chalks – are characterized by a rich, diverse paleontological and ichnological record: there are numerous representatives of ammonites, inoceramid and other bivalves, echinoids, sponges and other invertebrate groups, to a lesser extent, vertebrates (fish, sharks, and reptiles). The biostratigraphical scheme relies on calcareous nanoplankton, inoceramids, and ammonites.

Led by Elena Yazykova, Mariusz Kędzierski, and Jordan Todes.

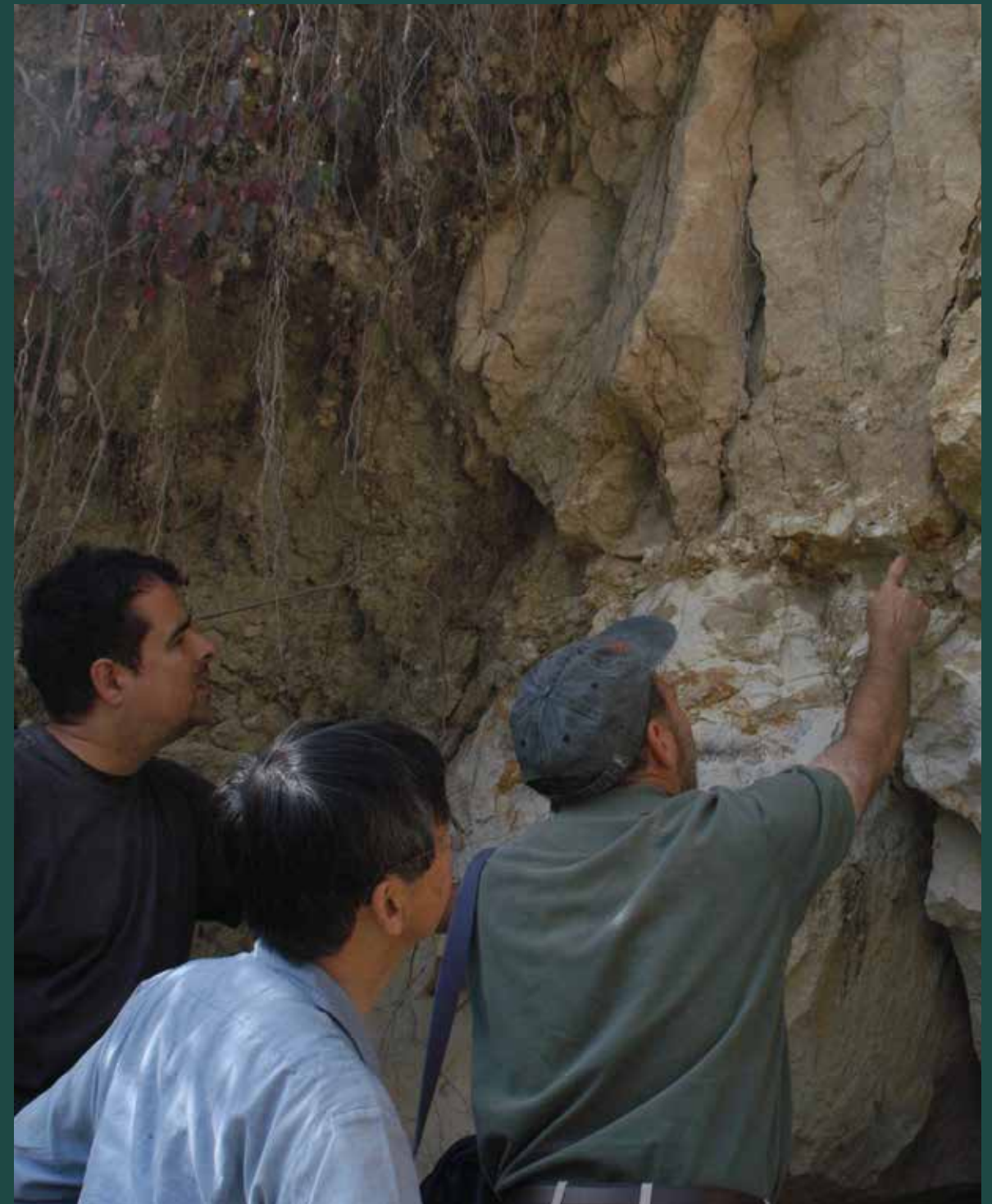


POST-CONFERENCE EXCURSION (2 DAYS):

*The end of an Era:
record of environments,
biotic communities
and events across the
Cretaceous-Paleogene
boundary in Poland*

We shall be guiding you to the most important localities in central and eastern Poland that record the environments, biotic communities and events just prior to and across the Cretaceous-Paleogene (K-Pg) boundary. This trip will include the classic localities near Kazimierz Dolny, in the Middle Vistula River section, as well as a section near Chełm with the K-Pg iridium anomaly. We shall also pay a visit to a regional museum at Kazimierz Dolny with a collection of late Cretaceous fossils.

*Led by Marcin Machalski, Danuta Olszewska-Nejbert
and Ewa Świerczewska-Gładysz.*





PRE-CONFERENCE EXCURSION (2 DAYS):

Geological record and petrology of the Upper Cretaceous of the Miechów Trough, southern Poland.

We would like to offer an exciting field trip across the Upper Cretaceous succession of the Miechów Synclinorium. The trip starts and finishes in Warsaw and includes an overnight stay in the European Center for Geological Education.

<https://www.eceg.uw.edu.pl/en/>

The trip will focus on siliceous-carbonate rocks and the biogeochemical Si cycle in marine environments.

Led by Agata Jurkowska, Ewa Świerczewska-Gładysz and Aleksandra Kasztelewicz

PRE-CONFERENCE EXCURSION (1 DAY)

Palaeontological and geological collections in Warsaw.

You will have the opportunity to see the rich collections of the Geological Museum of the Polish Geological Survey, and the two museums of the Polish Academy of Sciences: the Museum of Evolution and the Museum of the Earth, while touring the bustling center of Warsaw.

Led by Izabela Ploch and Tomasz Szczygielski.



The Cretaceous of the North Sudetic Synclinorium (southwestern Poland): stratigraphy, origin and economic importance.

This trip will focus on the facies and sedimentary development of the Cenomanian–Santonian shallow marine to terrestrial deposits of the North Sudetic Synclinorium (some 400 km southwest of Warsaw), which record a sedimentary basin (the North Sudetic Basin) that formed in the mid- Cretaceous at the northern margin of the Bohemian Massif. The North Sudetic Basin constituted a southeastern extension of the East Brandenburg Basin and was, at least temporarily, connected by a (supposed) strait with the adjacent Intra-Sudetic Basin and – further to the south –the Bohemian Basin: accordingly, it linked the Tethyan and Boreal realms. Depositional processes, systems, and environments, and the factors controlling sedimentation in this basin, will be discussed. The economic importance of the deposits – as building stones, glass sandstones, and ceramic clays – will also be examined.

Led by: Stanisław Leszczyński, Alina Chrząstek, Wojciech Nemec and Jurand Wojewoda.



POST-CONFERENCE EXCURSION (3 DAYS):

*Cross border, cross
boundary: exploring
the Jurassic-Cretaceous
transition in the western
Carpathians.*

We are exploring the possibility of offering an exciting field trip across the Western Carpathians, starting in Warsaw and ending in Budapest, primarily for those delegates who wish to attend both the Cretaceous Symposium and the Jurassic Symposium [which will take place the week after the Cretaceous Symposium]. Organized jointly with Polish and Slovak colleagues, a special focus will be placed on the Jurassic-Cretaceous transition.

Led by Jacek Grabowski and Damian Lodowski.





POST-CONFERENCE EXCURSION (2 DAYS)

*Cretaceous deep-sea
facies, stratigraphy,
and ichnology in the
Flysch Carpathians and
the Pieniny Klippen Belt.*

The excursion will lead through selected outcrops of Cretaceous deposits in the western and middle part of the Polish Flysch Carpathians. Variable facies, problems of stratigraphy and ichnology of the most important lithostratigraphic units in the Silesian, Subsilesian and Magura nappes will be presented.

Led by Alfred Uchman and collaborators.

POST-CONFERENCE EXCURSION (3 DAYS)

Late Cretaceous inversion of the Polish Basin – facies distribution and bathymetrical changes

The trip will focus on the northeastern part of the Mid-Polish Anticlinorium. In several outcrops, we will examine the main facies of this region (sandy limestone, gaize, opoka, marls, chalk), their spatial relationship, and resultant bathymetric and environmental interpretations. The surface data will be linked to high-resolution seismic images linking the subsurface changes to the depositional architecture during the Late Cretaceous inversion of the Polish Basin.

Led by Zbigniew Remin, Piotr Krzywiec, and Aleksandra Stachowska



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