# THE FIFTH INTERNATIONAL SYMPOSIUM OF THE INTERNATIONAL GEOSCIENCE PROGRAMME PROJECT 679

**Sep. 4th, 2025, Hannover, Germany**

# PROGRAMME

*"Linkage of Cretaceous solid earth dynamics, greenhouse climate, and response of ecosystems on land and in the oceans in Asia"*

**Cretaceous Earth Dynamics and Climate in Asia**

The Fifth International Symposium of IGCP 679 will be held on Sep. 4th, 2025 by a joint session during the 12th International Cretaceous Symposium (Aug. 1st–Sep. 5th, 2025, Hannover, Germany).

Title: The Fifth International Symposium of the International Geoscience Programme Project 679

| **Thursday, September 4th，2025** | |
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| **Sesstion 6a：Workshop of IGCP 679:**<br>**Cretaceous Earth dynamics and climate in Asia (IGCP679 Joint Session)**<br>**Conveners: Gang LI and Takashi HASEGAWA**<br>**Session 1：9:00-9:45 Chairman: Takashi HASEGAWA** | |
| 9:00-9:15<br>ID: 130 | **Opening address**<br>Progress of IGCP 679: Cretaceous Earth Dynamics and Climate in Asia:<br>**Gang LI**, Takashi HASEGAWA, Dae Kyo CHEONG and Vandana PRASAD |
| 9:15-9:30<br>ID: 153 | Paleoclimate reconstruction of Early Cretaceous East Asia using whole-rock geochemistry and climate modeling<br>**Tenichi CHO**, Taro HIGUCHI, Tohru OHTA, Arisa NAKANO, Hitoshi HASEGAWA, Ayako ABE-OUCHI, Wing-Le, CHAN, Gang LI |
| 9:30-9:45<br>ID: 384 | Detrital zircon U-Pb geochronology of the Cretaceous Goheung Basin, southern margin of the Korean Peninsula<br>**Taejin CHOI**, Seung-Ik PARK |
| | |

| Session 2：9:45-10:30<br><br>Chairman: Gang LI | |
|---|---|
| 9:45–10:00<br>ID: 159 | Mid-Cretaceous Oceanic Anoxic Events in the eastern Tethys: Calcareous nannofossil biostratigraphy and carbon<br>**Meiling HAN**, Gang LI, Ulrich HEIMHOFER, Jörg MUTTERLOSE |
| 10:00-10:15<br>ID: 185 | The contribution of Deccan traps to the mass extinction at K-Pg boundary in east China<br>**Suping LI**, Zhenguo NING, Tianquan QU, Weiqing LIU |
| 10:15-10:30<br>ID: 370 | Middle Cretaceous terrestrial vegetation evolution and paleoclimate change across the OAE2 event：Insights from the palynological evindence of the SK3, Songliao Basin, NE China<br>**Zihan ZHOU**, Dangpeng XI, Xiaoqiao WAN |
| 10:30-11:00 | Break |
| **Session 3：9:45-10:30<br><br>Chairman: Tohru OHTA** | |
| 11:00-11:15<br>ID: 146 | Mesozoic and Cenozoic stratigraphy of Zaamar District, Northern Khentii, Mongolia: Insights from K-Ar Dating, Petrography of basalts, and Lower Cretaceous Palynology<br>**Bat-Erdene TUMURCHUDUR**, Choimbol, TUMURCHUDUR, Niiden ICHINNOROV, Purevsuren SUKHBAT, Dulguun DAYARSAIKHAN, Enkhtuya BAYARAA |
| 11:15-12:30 | Business meeting of IGCP 679 |

Poster session 14:45-16:00 Sep. 4th, 2025

*Topics:* 6a - Cretaceous Earth dynamics and climate in Asia – Workshop IGCP 679 (Gang LI, Takahashi HASEGAWA)

**ID: 253**

**The Albian Palynological assembleges of the eastern Mongolia**

**Ichinnorov Niiden**[1], Purevsuren Sukhbat[1], Eviikhuu Adiya[2], Tsolmon Gombosuren[1], Odgerel Nyamsambuu[3]

[1]Institute of Paleontology, Mongolian Academy of Sciences, Mongolia; [2]Uyan Geo Resource LLC, Ulaanbaatar, Mongolia; [3]National University of Mongolia, Ulaanbaatar, Mongolia.

**ID: 192**

**Provenance discrimination of quartz grains by cathodoluminescence and application to Cretaceous detritus**

**Shota Hanada**, Tohru Ohta
Waseda University, Japan

**ID: 162**

**Paleoclimate analysis of the East Asian continent margin during the Triassic to Middle Cretaceous**

**Kumpei Hara**, Tohru Ohta, Ryutarou Komiya
Waseda University, Japan

**ID: 260**

**A carbon isotope stratigraphy toward composite stratigraphy for regional correlation of the Upper Jurassic to Lower Cretaceous Tetori Group in central Japan**

**Mayuko Kamimura**[1], Mitsuhiro Nagata[2], Takuto Ando[3], Koichi Hoyanagi[4], Yoichi Usui[1], Sota Niki[5], Takafumi Hirata[6], Takashi Hasegawa[1]
[1]Kanazawa University, Japan; [2]Nihon University, Japan; [3]Akita University, Japan; [4]Shinshu University, Japan; [5]Nagoya University, Japan; [6]The University of Tokyo, Japan

**ID: 165**

**Paleoenvironment and paleoecology of the Cretaceous Sayeonri Formation in Ulju-gun, Ulsan, Korea**

**Hyun Joo Kim**[1], In Sung Paik[1], Seung-Gyun Baek[2], Eunkyoung Jeong[3]
[1]Pukyong National University, Korea, Republic of (South Korea); [2]Gematek Co. Ltd.; [3]Dalseong Fossil Museum

**ID: 161**

**Grain shape evaluation by elliptic Fourier and principal component analyses: Application to the paleoenvironment analysis of Cretaceous sediments.**

**Yushiro Maeda**, Tohru Ohta
Waseda University, Japan

**ID: 139**

**Provenance discrimination of quartz grains based on the cathodoluminescence spectrum using machine learning**

**Naoya Miyashiro**, Yasunori Marumo, Masahito Osawa, Tohru Ohta
Waseda University, Japan

**ID: 195**

**Enhanced continental weathering during the Oceanic Anoxic Event 2 (OAE2) in the eastern Asian continental margin**

**Arisa Nakano**[1], Yuko Kamigata[1], Haruka Takagi[2], Tohru Ohta[1]
[1]Waseda University, Japan; [2]Atmosphere and Ocean Research Institute, the University of Tokyo, Kashiwa, Japan

**ID: 166**

**The Cretaceous climate of Vietnam: insights from the geochemical and mineral composition of terrigenous sediments**

**Thi Nga Pham**[1], Tohru Ohta[1], Taro Higuchi[2,3], Kohei Ikenaga[1], Quoc Dinh **Nguyen**[4]
[1]Waseda University, Tokyo, Japan; [2]Atmosphere and Ocean Research Institute, the University of Tokyo, Kashiwa, Japan; [3]Earth-Life Science Institute, Institute of Science Tokyo, Tokyo, Japan; [4]Environmental Chemistry and Ecotoxicology LAB, Phenikaa University, Hanoi, Vietnam

**ID: 322**

**Mesohibolitid belemnites from the Torinosu Group in Southwest Japan, and their palaeobiogeographical implications**

Kota SAKAI[1], Tomihoro MIZOBUCHI[2], **Shin-ichi SANO**[1]
[1]University of Toyama, Japan; [2]Sakawa Geology Museum and Institute, Japan

**ID: 380**

**Dynamic interchange between deltaic to open shelf environment in the Early Cretaceous at the passive margin of the north-eastern Gondwana (based on sequence in the Thakkhola Graben, central Nepal Himalaya)**

Krzysztof Starzec[1], **Anna Kwietniak**[1], Michał Krobicki[1], Justyna Kowal-Kasprzyk[1], Jan Barmuta[2]
[1]AGH Univeristy of Krakow, Poland; [2]Institute of Geological Sciences Polish Academy of Sciences, Poland

**ID: 160**

**Grain shape evaluation by elliptic Fourier and principal component analyses: Application to Cretaceous thin sections and modern foreshore sands**

**Ippei Tajima**, Tohru Ohta
Waseda University, Japan

**ID: 132**

**New non-marine Ostracod fauna from the Lower Cretaceous Xiaonangou Formation of the Baishan Basin, NE China**

**Yaqiong Wang**
Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, China, People's Republic of

**ID: 138**

**Paleoenvironmental Reconstruction of the Cretaceous Choshi Group using Elliptic Fourier-Principal Ccomponent Aanalysis**

**Tomoo Yokoyama**, Tohru Ohta
Waseda University, Japan