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MONGOLIAN ACADEMY OF SCIENCES
INSTITUTE OF GEOLOGY



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INTERNATIONAL CONFERENCE "GEOLOGICAL ISSUES OF CENTRAL ASIA 2026"

Pre-Conference Program

Field Excursion, 13-14 September

Erdenet porphyry Cu–Mo district

Workshop, 15 September

Practical Thermodynamic Modelling for Petrology

by Ondrej LEXA, IPSP, Charles University, Prague, Czechia

CONFERENCE SESSION

Venue: 7th floor, Chinggis Khaan National Museum, Ulaanbaatar, Mongolia

DAY 1, WEDNESDAY, 16 SEPTEMBER 2026

09:00 – 09:50 Registration/ breakfast

10:00 – 10:30 Opening Ceremony

Welcome address – Dr. S. Turbold, Director, Institute of Geology, MAS

Welcome address – Academician S. Demberel, President of the Mongolian Academy of Sciences

Welcome address – Representative Ministry of Economy and Development

Welcome address – Academician D. Regdel, Member of the State Great Hural (Parliament) of Mongolia

Welcome address – Dr. B. Uyanga, Member of the State Great Hural (Parliament) of Mongolia

Group photograph

SESSION I

Paleogeography of the Central Asian Orogenic Belt and Supercontinent Cycle

Chairman: **Dr. Turbold Sukhbaatar, Prof. Inna Safonova**

10:30 – 10:50 Keynote: Prof. Karel Schulmann

The Ediacaran–Cambrian assembly of Siberomongolia: processes and mechanisms of continental construction *Czech Geological Survey, Czechia*

10:50 – 11:10 Keynote: Dr. Dmitry P. Gladkochub

The southern Siberian craton in the Neoproterozoic: from the breakup of Rodinia to the origin of the Central Asian Orogenic Belt: geodynamics and mineral resources
Institute of the Earth's Crust SB RAS, Irkutsk, Russia

11:10 – 11:30 Keynote: Prof. Wenjiao Xiao

Making of the Central Asian Orogenic Belt: Insights into the Archean tectonics
Institute of Geology and Geophysics, CAS, China

11:30 – 11:50 Keynote: Prof. Inna Safonova

Subduction erosion at Pacific-type convergent margins: a review and examples from the Central Asian Orogenic Belt
Southwest Jiaotong University, China; Novosibirsk State University, Russia

11:50 – 12:10	Keynote: Dr. Igor Soejono Cryptic basement as the clue to unraveling orogenic configuration: Case studies from the Variscan and Central Asian orogenic belts <i>Czech Geological Survey, Czechia</i>
12:10 – 12:30	Keynote: Dr. Tatiana V. Donskaya Ediacaran Accretionary Events in the Northern Central Asian Orogenic Belt <i>Institute of the Earth's Crust SB RAS, Irkutsk, Russia</i>
12:30 – 13:20	Lunch

SESSION II

Mongolian Collage and Tectonics

Chairman:	Prof. Karel Schulmann, Prof. Tatiana V. Donskaya
13:20 – 13:40	Keynote: Dr. Turbold Sukhbaatar Establishing the Continental Core: an analysis of terrane transitions in the Mongolian collage <i>Institute of Geology, MAS, Mongolia</i>
13:40 – 14:00	Keynote: Prof. Gerel Ochir Petrogenesis and metallogenic implications of Li–F granites in Mongolia: constraints from geochemistry, mineral chemistry and geochronology <i>Geoscience Center, Mongolian University of Science and Technology, Mongolia</i>
14:00 – 14:20	Keynote: Prof. Laura Webb Records of polyphase orogenesis and the transition to intraplate deformation in southeastern Mongolia <i>University of Vermont, USA</i>
14:20 – 14:40	Keynote: Dr. Sanchir Dorjgochoo Ophiolites in Mongolia: Implications for the Spatiotemporal and Tectonic Evolution of the CAOB <i>Institute of Geology, MAS, Mongolia</i>
14:40 – 15:00	Keynote: Prof. Yingde Jiang From Chaotic Accretion to Ordered Cratonization: The Altai Story Told by Deformation–Metamorphism–Magmatism <i>Guangzhou Institute of Geochemistry, CAS, China</i>
15:00 – 15:15	Coffee break
15:15 – 15:35	Keynote: Prof. Li Pengfei Oroclines in the Central Asian Orogenic Belt: A Tale of Deep Processes and Surface Response <i>Guangzhou Institute of Geochemistry, CAS, China</i>
15:35 – 15:55	Keynote: Prof. Zhao Pan Evolution of the Mongol-Okhotsk Ocean: Constraints from paleomagnetism <i>Institute of Geology and Geophysics, CAS, China</i>
15:55 – 16:15	Keynote: Prof. Alexandra Guy Architecture of the Mongolian Orocline and its geodynamic evolution <i>Czech Geological Survey, Prague, Czechia</i>
16:15 – 16:30	Dr. Elena Demonerova The Hangai Dome in central Mongolia: A geophysical and geochemical perspective on the origin of intraplate basaltic volcanism <i>Institute of the Earth's Crust SB RAS, Russia</i>
16:30 – 16:45	Prof. Susana Henriquez (Virtual) Using zircon (U–Th)/He thermochronometry to investigate the growth and collapse of the Mongol-Okhotsk Orogenic Belt <i>California State University San Bernardino, USA</i>
16:45 – 17:00	Dr. Justin Tully (Virtual) Extra-prolate metamorphic core complexes of the Mongol-Okhotsk orogenic belt: Insights from Ereendavaa & Buteel <i>University of Utah, UT, USA</i>

DAY 2, THURSDAY, 17 SEPTEMBER 2026

SESSION III

Basin Analysis and Stratigraphy

- Chairman: **Prof. Yingde Jiang, Assoc. Prof. Undariya Jalbaa**
- 09:00 – 09:20 Keynote: **Prof. Yuan Gao**
International Continental Scientific Drilling Project of the Songliao Basin: Terrestrial Geological Records of the Cretaceous Dinosaur Age
State Key Laboratory of Geomicrobiology and Environmental Changes, China University of Geosciences, China
- 09:20 – 09:40 Keynote: **Prof. Ulambadrakh Khukhuudei**
Cenozoic regional tectonics of Mongolia
National University of Mongolia, Mongolia
- 09:40 – 09:55 **Dr. Rafał Sikora**
Tsakhiurtyn Hundi Lakeland and Khutul Usny Cave – geology, paleoenvironment, and early Homo sapiens (Arts Bogd, Mongolia)
Polish Geological Institute – NRI, Poland
- 09:55 – 10:10 **Dr. Badamkhatan Zorigt**
Recent advances in Mongolian vertebrate paleontology and their implications for Cretaceous stratigraphy
Institute of Paleontology, MAS, Mongolia
- 10:10 – 10:25 **Dr. Christian Leipe**
Hydroclimatic variability in northern Inner Asia over the past 2500 years inferred from varved sediments of Lake Shira (Chulym-Yenisei Basin, southern Siberia)
Freie Universität Berlin, Germany
- 10:25 – 10:40 **Dr. Uyangaa Udaanjargal**
Tectonic and climatic controls on Late Quaternary lacustrine sedimentation in arid Central Asia: evidence from Olgoi Lake, Mongolia
Institute of Geology, MAS, Mongolia
- 10:40 – 10:55 **Dr. Paul Rummy**
The Rise of Paralligatorids: Evolutionary Radiation Across Cretaceous Asia
Institute of Vertebrate Paleontology and Paleoanthropology, CAS, China
- 10:55 – 11:10 **Coffee break**

SESSION IV

Isotope Geochemistry, Geochronology, Crustal Evolution

- Chairman: **Prof. Laura Webb, Dr. Uyangaa Udaanjargal**
- 11:10 – 11:30 Keynote: **Prof. Chris Clark**
Developing petrologically informed geodynamic models
Curtin University, Australia
- 11:30 – 11:45 **Assoc. Prof Pavla Štípská**
Zircon melt-mediated coupled dissolution-precipitation and the effect on calculated ages: an overlooked mechanism of zircon modification, implications for CAOB
Czech Geological Survey, Czechia
- 11:45 – 12:00 **Dr. Baigalimaa Ganbat**
Upper mantle structure and the Amurian plate boundary beneath Mongolia from Surface wave tomography
Institute of Astronomy and Geophysics, MAS, Mongolia
- 12:00 – 12:15 **Dr. Arnaud Broussolle** (Virtual)
Tracing the evolution of the supercontinent cycle through Hf isotopes in the Mongolian Accretionary Collage
Département de Science et Technologie, Université de Guyane, France
- 12:15 – 12:30 **Dr. Jérémie Soldner** (Virtual)
Petrogenesis and metamorphic records of the eastern Alashan block (NW China): insights into the making of a Cordillera-type paleo-margin
Institute of Geological Sciences, Polish Academy of Sciences, Poland
- 12:30 – 13:30 **Lunch**

SESSION V
Mineral Resources and Metallogeny

- Chairman: **Prof. Batkhishig Bayaraa, Dr. Ariunzaya Tsogoo**
- 13:30 – 13:50 **Keynote: Dr. Tungalag Naidansuren**
Evolution of Ore-Forming Fluids in the Tsagaan Suvarga Porphyry Cu-Mo Deposit, South Mongolia: Inferred from Stable Isotopes and Fluid inclusions
*Institute of Geology, MAS, **Mongolia***
- 13:50 – 14:05 **Dr. Huanhuan Wu**
Tectono-magmatic Framework and Gold Metallogenic Potential of the East Tianshan–Beishan Metallogenic Belt, Central Asian Orogenic Belt
*Xi'an Mineral Resources Survey, China Geological Survey, **China***
- 14:05 – 14:20 **Dr. Vasiliy Leontiev & Viktor Snezhko**
Mineral Forecasting Based on Artificial Intelligence and Empirical-Statistical Methods
*The All-Russian Geological Research Institute of A. P. Karpinsky, **Russia***
- 14:20 – 14:35 **M.Sc. Radomir Pachytel**
Reconnaissance of critical raw materials on the southwestern fringe of the Khangai Mountains – conclusions from a joint Polish-Mongolian research project
*Polish Geological Institute – NRI, **Poland***
- 14:35 – 14:50 **Assoc. Prof. John Wang**
Assessment of Geothermal Energy Resources in the Marcellus Shale
*Pennsylvania State University, **USA***
- 14:50 – 15:05 **Dr. Nikolai Gusev**
Compilation of the geological space digital models of the Greater Altai at a scale of 1:1M, aimed at forecasting ore deposits: the state of the art and proposals for intensifying scientific and practical cooperation between Russia, China, Mongolia and Kazakhstan
*The All-Russian Geological Research Institute of A. P. Karpinsky, **Russia***
- 15:05 – 15:40 **Poster Session (with coffee) – see poster list**

SESSION VI
Advanced Technology and Data Analysis

- Chairman: **Dr. Sanchir Dorjgochoo, Dr. Vasiliy Leontiev**
- 15:40 – 16:00 **Keynote: Prof. Xixi Zhao**
The TopoAsia Initiative: A Multidisciplinary Framework for Integrating Deep Earth Dynamics and Surface Processes in Asia
*Advanced Institute for Ocean Research, Tongji University, **China***
- 16:00 – 16:15 **Dr. Viktor Snezhko**
Digital Technologies for Regional Geological Studies: Integration of Geological Data, Mapping, and Artificial Intelligence
*The All-Russian Geological Research Institute of A. P. Karpinsky, **Russia***
- 16:15 – 16:30 **Dr. Tsogoo Ariunzaya**
Zinc oxide nanoparticles for Arsenic remediation in Mongolian Closed-Basin Salt lakes and mining tailings
*Institute of Geology, MAS, **Mongolia***
- 16:30 – 16:45 **Dr. Gennadiy Babin**
Monitoring the border section of the State Geological Map of the Russian Federation at a scale of 1:1,000,000
*The All-Russian Geological Research Institute of A. P. Karpinsky, **Russia***
- 16:45 – 17:00 **Dr. Olga Kovaleva**
The International Network of Karpinsky Geological Classes as a Standing Scientific and Information Platform
*The All-Russian Geological Research Institute of A. P. Karpinsky, **Russia***
- 17:00 – 17:30 **Closing Ceremony – summary of Geological Issues of Central Asia**
- 18:00 **GALA DINNER – ULAANBAATAR HOTEL EVENT HALL**

POSTER SESSION
Thursday 17 September, 15:05–15:40 (boards available both days)

No.	Presenter	Title
P-01	Gerel Ochir <i>Geoscience Center, MUST, Mongolia</i>	Contributions of the Mongolian–Soviet Joint Geological Expedition to the Study of Rare-Metal Granites in Mongolia
P-02	Ren Qiang <i>Chengdu University of Technology, China</i>	Quantitative Paleomagnetic Constraints on the Permian Evolution of the Eastern Paleo-Asian Ocean
P-03	Turbold Sukhbaatar <i>Institute of Geology MAS, Mongolia</i>	Tectonic relationships of the Trans-Altai Zone and its connection to the Mongolian Altai Orogenic Belt: Implications for Paleozoic geodynamics of the Central Asian Orogenic Belt
P-04	Pavel Hanžl <i>Czech Geological Survey, Czechia</i>	Stratigraphy, paleontology and sedimentology of the Mesozoic formations in the Shiliin Nuruu Syncline (Gobi Altai, Mongolia)
P-05	Cari Johnson <i>University of Utah, UT, USA</i>	Sedimentary record of oroclinal collision and ocean closure, Buregkhangai basin of the Mongol-Okhotsk suture zone in northern Mongolia
P-06	Paweł Urbański <i>Polish Geological Institute – NRI, Poland</i>	Results of heavy mineral panning studies of placer sediments from the Khasagt region, Zavkhan Terrane, Mongolia
P-07	Oyunchimeg Tserentsegmid <i>Institute of Geology MAS, Mongolia</i>	Late Pleistocene and Holocene paleoclimate records from sediments of Achit Lake, Western Mongolia
P-08	Rosa Badmatsyrenova <i>A.P. Vinogradov Institute of Geochemistry SB RAS, Russia</i>	Magmatic Fe-Ti Oxide Deposits Associated with Mafic-Ultramafic Intrusions, CAOБ
P-09	Tuvshinjargal Battogtokh <i>Institute of Geology MAS, Mongolia</i>	Petrogenesis of a Late Paleozoic arc-related layered ultramafic-mafic intrusion in northern Mongolia: Preliminary stratigraphic and geochemical constraints
P-10	Luc de Hoym de Marien <i>Czech Geological Survey, Prague, Czechia</i>	Plume-related mid-Devonian–Carboniferous magmatism along the Paleo-Pacific active margin – Gashun Nuur Complex, Mongolian Altai
P-11	Luc de Hoym de Marien <i>Czech Geological Survey, Prague, Czechia</i>	Permian syn-extensional Barrovian metamorphism in the Mongolian Altai
P-12	Munkhsukh Bat-Ulzii <i>Institute of Geology MAS, Mongolia</i>	Ediacaran magmatic arc at the northeastern margin of the Baidrag microcontinent: Whole-rock geochemistry, Sr-Nd and zircon U-Pb isotopic results
P-13	Damdinsuren Muunuu <i>MUST, Erdenet Mining Corporation SOE, Mongolia</i>	Geological structure of the “Erdenetiin Ovoo” copper-molybdenum group deposit
P-14	Myagmarsuren Enkhbat <i>Institute of Geology MAS, Mongolia</i>	Tracking the Early Phase of Closure of the Mongol–Okhotsk Ocean: Structural, Geochemical, and Zircon U–Pb Chronological Evidence from Northern Mongolia
P-15	Baasandash Gansukh <i>Institute of Geology MAS, Mongolia</i>	Combined structural and detrital zircon U-Pb isotopic analysis of Paleozoic sedimentary rocks from the Artsbogd Mountain range in southern Mongolia
P-16	Elizabeth Huang <i>University of Maryland, College Park, MD, USA</i>	REE+Y composition of different microfacies indicates preservation of highly variable paleoredox information in Cambrian phosphorites of central Asia
P-17	Bayarmaa Batsukh <i>Institute of Geology MAS, Mongolia</i>	Formation of the pillow lava from the Bayankhongor Ophiolite
P-18	Dagva-Ochir Lkhagvasuren <i>Institute of Geology, MAS, Mongolia</i> <i>Tatakh Khuch LLC, Ulaanbaatar, Mongolia</i>	Stratigraphic Framework and depositional age of Late Paleozoic–Mesozoic Sequences in Khüren Khayn Khets, Noyon Basin
P-19	Tserendulam Buyanjargal <i>Institute of Geology MAS, Mongolia</i>	Geochemistry and geochronology of granitoid rocks from the Egiindavaa Complex in Khangai region, central Mongolia
P-20	Dulguuntamir Erdenebulgan <i>Institute of Geology MAS, Mongolia</i>	Deep-Crustal Metamorphic Records from the Zunaigol Formation: Preliminary Data