AGENDA

ORGANIZER

MONGOLIAN ACADEMY OF SCIENCES
INSTITUTE OF GEOLOGY

POWERED BY

RioTinto

CO-ORGANIZERS

ERDENET MINING CORPORATION SOE

STF NATIONAL SCIENCE AND TECHNOLOGY FUND

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, IPSG, 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
Czech Geological Survey, ***Czechia***

12:10 – 12:30 Keynote: **Dr. Tatiana V. Donskaya**
Ediacaran Accretionary Events in the Northern Central Asian Orogenic Belt
Institute of the Earth's Crust SB RAS, Irkutsk, ***Russia***

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
Institute of Geology, MAS, ***Mongolia***

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
Geoscience Center, Mongolian University of Science and Technology, ***Mongolia***

14:00 – 14:20 Keynote: **Prof. Laura Webb**
Records of polyphase orogenesis and the transition to intraplate deformation in southeastern Mongolia
University of Vermont, ***USA***

14:20 – 14:40 Keynote: **Dr. Sanchir Dorjgochoo**
Ophiolites in Mongolia: Implications for the Spatiotemporal and Tectonic Evolution of the CAOB
Institute of Geology, MAS, ***Mongolia***

14:40 – 15:00 Keynote: **Prof. Yingde Jiang**
From Chaotic Accretion to Ordered Cratonization: The Altai Story Told by Deformation–Metamorphism–Magmatism
Guangzhou Institute of Geochemistry, CAS, ***China***

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
Guangzhou Institute of Geochemistry, CAS, ***China***

15:35 – 15:55 Keynote: **Prof. Zhao Pan**
Evolution of the Mongol-Okhotsk Ocean: Constraints from paleomagnetism
Institute of Geology and Geophysics, CAS, ***China***

15:55 – 16:15 Keynote: **Prof. Alexandra Guy**
Architecture of the Mongolian Orocline and its geodynamic evolution
Czech Geological Survey, Prague, ***Czechia***

16:15 – 16:30 **Dr. Elena Demonterova**
The Hangai Dome in central Mongolia: A geophysical and geochemical perspective on the origin of intraplate basaltic volcanism
Institute of the Earth's Crust SB RAS, ***Russia***

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
California State University San Bernardino, ***USA***

16:45 – 17:00 **Dr. Justin Tully** (Virtual)
Extra-prolate metamorphic core complexes of the Mongol-Okhotsk orogenic belt: Insights from Ereendavaa & Buteel
University of Utah, UT, ***USA***

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 Olgoy 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** *Geoscience Center, MUST, Mongolia*	Contributions of the Mongolian–Soviet Joint Geological Expedition to the Study of Rare-Metal Granites in Mongolia
P-02	**Ren Qiang** *Chengdu University of Technology, **China***	Quantitative Paleomagnetic Constraints on the Permian Evolution of the Eastern Paleo-Asian Ocean
P-03	**Turbold Sukhbaatar** *Institute of Geology MAS, Mongolia*	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** *Czech Geological Survey, Czechia*	Stratigraphy, paleontology and sedimentology of the Mesozoic formations in the Shiliin Nuruu Syncline (Gobi Altai, Mongolia)
P-05	**Cari Jonhson** *University of Utah, UT, **USA***	Sedimentary record of oroclinal collision and ocean closure, Buregkhangai basin of the Mongol-Okhotsk suture zone in northern Mongolia
P-06	**Paweł Urbański** *Polish Geological Institute – NRI, Poland*	Results of heavy mineral panning studies of placer sediments from the Khasagt region, Zavkhan Terrane, Mongolia
P-07	**Oyunchimeg Tserentsegmid** *Institute of Geology MAS, Mongolia*	Late Pleistocene and Holocene paleoclimate records from sediments of Achit Lake, Western Mongolia
P-08	**Rosa Badmatsyrenova** *A.P. Vinogradov Institute of Geochemistry SB RAS, Russia*	Magmatic Fe-Ti Oxide Deposits Associated with Mafic-Ultramafic Intrusions, CAOB
P-09	**Tuvshinjargal Battogtokh** *Institute of Geology MAS, Mongolia*	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** *Czech Geological Survey, Prague, Czechia*	Plume-related mid-Devonian–Carboniferous magmatism along the Paleo-Pacific active margin – Gashun Nuur Complex, Mongolian Altai
P-11	**Luc de Hoym de Marien** *Czech Geological Survey, Prague, Czechia*	Permian syn-extensional Barrovian metamorphism in the Mongolian Altai
P-12	**Munkhsukh Bat-Ulzii** *Institute of Geology MAS, Mongolia*	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** *MUST, Erdenet Mining Corporation SOE, Mongolia*	Geological structure of the "Erdenetiin Ovoo" copper-molybdenum group deposit
P-14	**Myagmarsuren Enkhbat** *Institute of Geology MAS, Mongolia*	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** *Institute of Geology MAS, Mongolia*	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** *University of Maryland, College Park, MD, USA*	REE+Y composition of different microfacies indicates preservation of highly variable paleoredox information in Cambrian phosphorites of central Asia
P-17	**Bayarmaa Batsukh** *Institute of Geology MAS, Mongolia*	Formation of the pillow lava from the Bayankhongor Ophiolite
P-18	**Dagva-Ochir Lkhagvasuren** *Institute of Geology, MAS, Mongolia* *Tatakh Khuch LLC, Ulaanbaatar, Mongolia*	Stratigraphic Framework and depositional age of Late Paleozoic–Mesozoic Sequences in Khüren Khanyn Khets, Noyon Basin
P-19	**Tserendulam Buyanjargal** *Institute of Geology MAS, Mongolia*	Geochemistry and geochronology of granitoid rocks from the Egiindavaa Complex in Khangai region, central Mongolia
P-20	**Dulguuntamir Erdenebulgan** *Institute of Geology MAS, Mongolia*	Deep-Crustal Metamorphic Records from the Zunaigol Formation: Preliminary Data