

GENERAL PROGRAM

Day 1: Wednesday, July 01, 2026

Time	Activity		
08:30-09:30	Registration (Ballroom)		
09:30-10:00	Opening ceremony (Ballroom)		
PLENARY SESSION (Ballroom)			
10:00-10:30	Keynote speech Investigation on enrichment and pyrolysis of some brown coals from Mongolia deposits		
10:30-11:00	Coffee break		
11:00-11:30	Keynote speech Research on clean production process of chromium salts		
11:30-12:00	Keynote speech Ultra-fast antibody structural characterization and quantification via microdroplet enzymatic digestion		
12:10-14:00	Lunch break (Beijing Hall)		
PARALLEL SESSION			
	Session 1 and Session 2	Session 3	Session 4
14:00-15:30	Environmental and Ecological Chemistry & Material Science and Nanotechnology (London Hall)	Sustainable and Green Mineral Processing (Ballroom)	Bio- and Pharmaceutical Chemistry (Tokyo Hall)
15:30-15:50	Coffee break & Poster session (Ballroom, Floor 2)		
PARALLEL SESSION			
	Session 1 and Session 2	Session 3	Session 4
15:50-18:00	Environmental and Ecological Chemistry & Material Science and Nanotechnology (London Hall)	Sustainable and Green Mineral Processing (Ballroom)	Bio- and Pharmaceutical Chemistry (Tokyo Hall)
19:00	Dinner (OPTIONAL)		

Day 2: Thursday, July 02, 2026

Time	Activity		
08:30-09:00	Registration (Ballroom)		
PARALLEL SESSION			
09:00-10:30	Session 1 and Session 2	Session 3	Session 5
	Environmental and Ecological Chemistry & Material Science and Nanotechnology (London Hall)	Sustainable and Green Mineral Processing (Ballroom)	Fuel Chemistry and Organic Synthesis (Tokyo Hall)
	10:30-11:00 Coffee break & Poster session (Ballroom, Floor 2)		
PARALLEL SESSION			
11:00-12:30	Session 1 and Session 2	Session 3	Session 5
	Environmental and Ecological Chemistry & Material Science and Nanotechnology (London Hall)	Sustainable and Green Mineral Processing (Ballroom)	Fuel Chemistry and Organic Synthesis (Tokyo Hall)
	12:30-14:00 Lunch break (Beijing Hall)		
PARALLEL SESSION			
14:00-15:20	Session 1 and Session 2	Session 5	
	Environmental and Ecological Chemistry & Material Science and Nanotechnology (London Hall)	Fuel Chemistry and Organic Synthesis (Tokyo Hall)	
	15:20-15:50 Closing Remarks		
17:30	Conference Banquet (Ballroom)		

Day 3: Friday, July 03, 2026

CULTURAL EVENT: MINI NAADAM FESTIVAL (For foreign participants only)

Time	Activity
08:30	Departure from “Premium Bolor” Resort, Gorkhi Terelj National Park
09:00	Arrive at “Mongol Culture Park”, Gorkhi Terelj National Park
13:30	Departure for Ulaanbaatar

PLENARY SESSION

Wednesday, July 01, 2026

Time	Activity
08:30-09:30	Registration
09:30-10:00	Opening ceremony
10:00-10:30	Keynote speaker Purevsuren Barnasan, Academician, ScD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Investigation on enrichment and pyrolysis of some brown coals from Mongolia deposits
10:30-11:00	COFFEE BREAK
11:00-11:30	Keynote speaker Jingkui Qu, Professor <i>Institute of Process Engineering, Chinese Academy of Sciences & China-Mongolia Belt and Road Joint Laboratory on Mineral Processing Technology, Inner Mongolia Academy of Science and Technology, P.R. China</i> Research on clean production process of chromium salts
11:30-12:00	Keynote speaker Hao Chen, Professor <i>New Jersey Institute of Technology, United States</i> Ultra-fast antibody structural characterization and quantification via microdroplet enzymatic digestion
12:00-12:10	Group photo
12:10-14:00	LUNCH BREAK (Beijing Hall)

**SESSION 1: ENVIRONMENTAL AND ECOLOGICAL CHEMISTRY &
SESSION 2: MATERIAL SCIENCE AND NANOTECHNOLOGY**

Wednesday, July 01, 2026

Time	Activity
Moderator: Odkhuu Dorj, Professor <i>Incheon National University, Republic of Korea</i>	
14:00-14:30	Invited speaker Jeonghoon Lee, Professor <i>Ewha Womans University, Republic of Korea</i> Redistribution of anthropogenic nitrate via artificial snowmaking to mountain aquifers: Isotopic evidence and biogeochemical pathways
14:30-14:50	Banzragch Tsednee, PhD <i>Institute of Physics and Technology, Mongolian Academy of Sciences, Mongolia</i> Unrestricted Hartree-Fock calculation with the 6-31** basis set
14:50-15:10	Lee Youngjun, PhD student <i>Korea Institute of Ceramic Engineering and Technology, Republic of Korea</i> Effects of P ₂ O ₅ and MnO ₂ doping on burnability and mineralogical polymorphism of portland cement clinker
15:10-15:30	Dolgormaa Munkhbat, PhD <i>Tokyo Metropolitan University, Japan</i> Microplastic degradation and their transporting mechanism in riverine environment: Tuul river case study
15:30-15:50	COFFEE BREAK & POSTER SESSION (Ballroom, Floor 2)
Moderator: Munkhbayer Batmunkh, PhD <i>Quantum and Advanced Technologies Research Institute, Griffith University, Australia</i>	
15:50-16:20	Invited speaker Odkhuu Dorj, Professor <i>Incheon National University, Republic of Korea</i> Towards nanomagnetic materials design and characterization
16:20-16:40	Alateng Shaga, Professor <i>Jilin Jianzhu University, P.R. China</i> Upcycling coal gasification slag into directional porous ceramic skeletons for high-performance phase change composites
16:40-17:00	Ting Yang, PhD <i>China-Mongolia Belt and Road Joint Laboratory of Mineral Processing Technology, Inner Mongolia Academy of Science and Technology, P.R. China</i> Nitrogen partial pressure-controlled deposition of TiMoSiN coatings via arc ion plating: Mechanical, tribological, and corrosion-resistant properties
17:00-17:20	Batdulam Battulga, PhD <i>Advanced Institute for Marine Ecosystem Change, Tohoku University, Japan</i> Characterizing microbial communities associated with microplastics in Tuul River system, Mongolia
17:20-17:40	Bilguun Mend, PhD student <i>Korea Institute of Ceramic Engineering and Technology, Republic of Korea</i> LCA-oriented evaluation of waste plastic as alternative fuel in cement clinker production
17:40-18:00	Amarzaya Bazarvaani, PhD student <i>School of Arts and Sciences, National University of Mongolia, Mongolia</i> Sustainable cashmere dyeing with natural and metal free reactive dyes
19:00	DINNER (OPTIONAL)

SESSION 3: SUSTAINABLE AND GREEN MINERAL PROCESSING

Wednesday, July 01, 2026

Time	Activity
Moderator: Azzaya Tumendelger, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i>	
14:00-14:30	Invited speaker Altansukh Batnasan, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Selective recovery of light and heavy rare earth oxides from apatite ore in Mongolia
14:30-14:50	Lijuan Sun, PhD <i>China-Mongolia Belt and Road Joint Laboratory on Mineral Processing Technology, Inner Mongolia Academy of Science and Technology, P.R. China</i> Advances in experimental techniques for bubble-particle attachment in flotation: From macroscopic observation to micro-force quantification
14:50-15:10	Li Kepiao, PhD <i>School of Metallurgy, Northeastern University, P.R. China</i> Clean conversion of PbO_2 to PbCO_3 via MSG- CO_2 -mediated reduction-carbonation coupling
15:10-15:30	Bayarbayasgalan Bayarsaikhan, PhD student <i>School of Arts and Sciences, National University of Mongolia, Mongolia</i> Enhanced recovery of rare earth elements from carbonatite ore by biological pretreatment
15:30-15:50	COFFEE BREAK & POSTER SESSION (Ballroom, Floor 2)
Moderator: Lijuan Sun, PhD <i>China-Mongolia Belt and Road Joint Laboratory on Mineral Processing Technology, Inner Mongolia Academy of Science and Technology, P.R. China</i>	
15:50-16:10	Enkhtuul Surenjav, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Characterization of kaolin-based adsorbent for Cu^{2+} and Pb^{2+} removal from aqueous solution
16:10-16:30	Lixue Cao, PhD <i>Inner Mongolia Academy of Science and Technology, P.R. China</i> The early hydration of solid waste-based sulfate-rich belite sulfoaluminate clinkers
16:30-16:50	Altangerel Amarsanaa, PhD <i>School of Arts and Sciences, National University of Mongolia, Mongolia</i> Speciation of rare earth elements in carbonatite ore using sequential extraction
16:50-17:10	Orgodol Togoo, PhD student <i>Mongolian University of Science and Technology, Mongolia</i> Improving gold recovery from spent heap-leach ores through natural oxidation: Evidence from the Boroo gold deposit, Mongolia
17:10-17:30	Azzaya Tumendelger, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Extraction of high-purity cerium oxide from total rare earth oxides derived from the Khotgor deposit, Mongolia
19:00	DINNER (OPTIONAL)

SESSION 4: BIO- AND PHARMACEUTICAL CHEMISTRY

Wednesday, July 01, 2026

Time	Activity
Moderator: Gan-Erdene Tudev, Academician, ScD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i>	
14:00-14:30	Invited speaker Huricha Baiguda, Professor <i>School of Chemistry & Chemical Engineering, Inner Mongolia University, P.R. China</i> Natural polysaccharide-based nanoparticles for targeted delivery of RNA therapeutics
14:30-14:50	Odontuya Gendaram, ScD <i>Mongolian University of Pharmaceutical Sciences, Mongolia</i> Analytical and toxicity evaluation of a combined extracts of <i>Valeriana officinalis</i> L. and <i>Leonurus sibiricus</i> L.
14:50-15:10	Amarsanaa Badgaa, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Acetylcholinesterase inhibitory activity of some Mongolian <i>Saussurea</i> DC. species
15:10-15:30	Janbolat Ashim, PhD <i>Daegu Gyeonbuk Institute of Science and Technology, Republic of Korea</i> Atomistic insights into Gα- and β-arrestin-dependent GPCR signaling
15:30-15:50	COFFEE BREAK & POSTER SESSION (Ballroom, Floor 2)
Moderator: Amarsanaa Badgaa, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i>	
15:50-16:20	Invited speaker Sang Min Kim, PhD <i>KIST Gangneung Institute of Natural Products, Korea Institute of Science and Technology, Republic of Korea</i> Smart farming-driven strategies for natural product development and commercialization: Opportunities for Korea-Mongolia collaboration
16:20-16:40	Erdenedolgor Erdene-Ochir, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Enzymatic hydrolysate of spent brewer's yeast: Antidiabetic effect and nutritional benefits
16:40-17:00	Altantogos Myagmar, PhD student <i>School of Biomedicine, Mongolian National University of Medical Sciences</i> Release pattern and antibacterial and <i>in vitro</i> anticancer activities of a ceftriaxone-delivery system based on Mongolian natural zeolite
17:00-17:20	Munkhgerel Khurelchuluun, MSc <i>Institute of Biology, Mongolian Academy of Sciences, Mongolia</i> Characterization of fungal proteases and their application in enzymatic dehairing of sheep skin
17:20-17:40	Bayartsetseg Bayarsaikhan, PhD <i>Institute of Mathematics and Digital Technology, Mongolian Academy of Sciences</i> Comparative in silico analysis of gnetin H and novel phenolic compounds from <i>Paeonia anomala</i> : Integrated ligand- and structure-based target fishing
19:00	DINNER (OPTIONAL)

**SESSION 1: ENVIRONMENTAL AND ECOLOGICAL CHEMISTRY &
SESSION 2: MATERIAL SCIENCE AND NANOTECHNOLOGY**

Thursday, July 02, 2026

Time	Activity
08:30-09:00	Registration
Moderator: Jeonghoon Lee, Professor <i>Ewha Womans University, Republic of Korea</i>	
09:00-09:30	Invited speaker Florian Breider, PhD <i>Swiss Federal Institute of Technology, Switzerland</i> Tire and road wear particles: Occurrence, transformation, and toxicity of a complex environmental contaminant
09:30-09:50	Heekyu Choi, Professor <i>Changwon National University, Republic of Korea</i> The comparison study of grinding behavior of brittle and ductile powders under same mill dynamics
09:50-10:10	Punsaldulam Dashnyam, PhD <i>Institute of Biology, Mongolian Academy of Sciences, Mongolia</i> Bioprospecting indigenous EPS-producing bacterial strains for soil enhancement and biosorption
10:10-10:30	Yu Zhang, PhD <i>China-Mongolia Belt and Road Joint Laboratory on Mineral Processing Technology, Inner Mongolia Academy of Science and Technology, P.R. China</i> Research on the development mechanism and early warning method of fault rockbursts in deep shaft and roadway engineering
10:30-11:00	COFFEE BREAK & POSTER SESSION (Ballroom, Floor 2)
Moderator: Florian Breider, PhD <i>Swiss Federal Institute of Technology, Switzerland</i>	
11:00-11:30	Invited speaker Munkhbayar Batmunkh, PhD <i>Quantum and Advanced Technologies Research Institute, GU, Australia</i> Engineering metal halide perovskite semiconductors for solar cells
11:30-11:50	Zhijia Lv, PhD <i>China-Mongolia Belt and Road Joint Laboratory on Mineral Processing Technology, Inner Mongolia Academy of Science and Technology, P.R. China</i> High-efficiency luminescent system construction: Integrated applications for solid-state lighting LEDs and biomedical theranostics
11:50-12:10	Yalalt Nyamgerel, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Assessment of drinking water quality in the Gobi region of Mongolia
12:10-12:30	Wendi Zhang, PhD <i>China-Mongolia Belt and Road Joint Laboratory on Mineral Processing Technology, Inner Mongolia Academy of Science and Technology, P.R. China</i> Study on microstructures of molten NaF-AlF ₃ -CaF ₂ -Al ₂ O ₃ using first principles molecular dynamics
12:30-14:00	LUNCH BREAK (Beijing Hall)
Moderator: Munkhtsetseg Tsednee, PhD <i>Research Center for Environmental Changes, Academia Sinica, Taiwan</i>	
14:00-14:20	Altantuya Ochirkhuyag, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i>

	Synthesis of graphene oxide from low-grade natural graphite and its application for Cr(VI) removal from aqueous solutions
14:20-14:40	Batchimeg Ganbaatar, PhD student <i>Mongolian University of Science and Technology, Mongolia</i> Extraction optimization and characterization of natural melanin from yak wool
14:40-15:00	Oyuntungalag Khaltar, PhD <i>Erdenet mining corporation, State-Owned Enterprise, Mongolia</i> Influence of calcium ions in recycled water on copper–molybdenum flotation
15:20-15:50	CLOSING REMARKS (Ballroom)
17:30	CONFERENCE BANQUET (Ballroom)

SESSION 3: SUSTAINABLE AND GREEN MINERAL PROCESSING

Thursday, July 02, 2026

Time	Activity
Moderator: Altansukh Batnasan, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i>	
09:00-09:30	Invited speaker Munkhtsetseg Tsednee, PhD <i>Research Center for Environmental Changes, Academia Sinica, Taiwan</i> Effects of iron availability on metabolic and physiological responses in Symbiodiniaceae
09:30-09:50	Erdenebold Urtnasan, Professor <i>Darkhan School of Technology, Mongolian University of Science and Technology</i> A study on the recovery of Neodymium from spent EV motors using a pyrometallurgical approach
09:50-10:10	Otgonjargal Enkhtur, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Beneficiation of a low-grade Mongolian graphite ore
10:10-10:30	Uyanga Enkhnarar, PhD <i>Institute of Physics and Technology, Mongolian Academy of Sciences, Mongolia</i> Atomic-flux tunable exchange-spring magnetism in SmFe ₁₂ /Fe nanocomposite
10:30-11:00	COFFEE BREAK & POSTER SESSION (Ballroom, Floor 2)
Moderator: Enkhtuul Surenjav, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i>	
11:00-11:20	Zhiwei Bian, PhD <i>China-Mongolia Belt and Road Joint Laboratory on Mineral Processing Technology, Inner Mongolia Academy of Science and Technology, P.R. China</i> Simulation study of vanadium titanium magnetite oxygen-rich side-blown bath smelting equipment
11:20-11:40	Erkhembayar Amgalanbayar, Researcher <i>German Mongolian Institute for Resources and Technology, Mongolia</i> Metallurgical test-work of gold and silver deposits
11:40-12:00	Altansukh Batnasan, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Separation of valuable components from coal pond ash in Ulaanbaatar, Mongolia
12:30-14:00	LUNCH BREAK (Beijing Hall)
15:20-15:50	CLOSING REMARKS (Ballroom)
17:30	CONFERENCE BANQUET (Ballroom)

SESSION 5: FUEL CHEMISTRY AND ORGANIC SYNTHESIS

Thursday, July 02, 2026

Time	Activity
Moderator: Yong Ju, Professor <i>Tsinghua University, P.R. China</i>	
09:00-09:30	Invited speaker Jin Bai, Professor <i>Institute of Coal Chemistry, Chinese Academy of Sciences, P.R. China</i> Coal chemistry in China & ICC, CAS technologies, industrial applications, and development priorities
09:30-09:50	Vladimir Safin, PhD <i>Institute of Chemistry and Chemical Technology SB RAS, Russia</i> Effect of distillate composition from coal extracts on the anisotropy of resulting cokes
09:50-10:10	Zongqing Bai, Professor <i>Institute of Coal Chemistry, Chinese Academy of Sciences, P.R. China</i> Directional depolymerization of tar-rich coal in China
10:10-10:30	Anujin Munkhsaikhan, Researcher <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Catalytic performance of fly ash-synthesized iron oxide on petroleum residues
10:30-11:00	COFFEE BREAK & POSTER SESSION (Ballroom, Floor 2)
Moderator: Vladimir Safin, PhD <i>Institute of Chemistry and Chemical Technology SB RAS, Russia</i>	
11:00-11:30	Invited speaker Yong Ju, Professor <i>Tsinghua University, P.R. China</i> Design, synthesis and characteristics of organic functional molecules based on natural product skeleton
11:30-11:50	Narangerel Janchig, ScD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Occurrence of germanium in Mongolian coals
11:50-12:10	Manlaibaatar Purevsuren, PhD student <i>School of Arts and Sciences, National University of Mongolia, Mongolia</i> Zirconium-promoted Co/Al ₂ O ₃ catalysts for low-temperature CO ₂ methanation: Role of CoO/Co phase synergy
12:10-12:30	Shiirav Gandandorj, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Coking of thermally dissolved coal fractions: anisotropic properties and crystal structure of the products
12:30-14:00	LUNCH BREAK (Beijing Hall)
Moderator: Narangerel Janchig, ScD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i>	
14:00-14:20	Navchtsetseg Nergui, PhD <i>Institute of Chemistry and Chemical Technology, Mongolian Academy of Sciences</i> Study of crystalline and morphological structure of semi-coke and needle coke produced from toluene-solubles derived from the pitch of dissolved coal
14:20-14:40	Oyunbileg Galindev, Professor <i>School of Arts and Sciences, National University of Mongolia, Mongolia</i> Effects of synthesis route and ball-milling on the catalytic performance of PtCo/C fuel cell catalysts

14:40-15:00	Enkema Abaga, Researcher <i>School of Engineering and Technology, National University of Mongolia, Mongolia</i> Investigation of synergistic behavior in steam co-gasification of coal and PET
15:00-15:20	Chantsalnyam Bariashir, PhD <i>Mongolian National University of Education, Mongolia</i> Chloro-functionalized bis(imino)pyridylferrous chlorides as thermo-stable precatalysts for linear polyethylenes with low molecular weights
15:20-15:50	CLOSING REMARKS (Ballroom)
17:30	CONFERENCE BANQUET (Ballroom)