



XI INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE TITLED
"DEVELOPMENT OF URANIUM AND RARE METAL INDUSTRIES"

DEDICATED TO THE 75TH ANNIVERSARY OF ULBA METALLURGICAL PLANT



PROGRAM

**XI International
scientific-practical conference
«Development of uranium and rare metal
industry» dedicated to the 75th anniversary
Ulba Metallurgical Plant**

<https://uranconference.fiz/>

**May 16-18
Almaty, 2024**

PROGRAM COMMITTEE

- **Omarbekov Kuanysh Altynbekovich** – Chief Director for Production of «NAC «Kazatomprom» JSC
- **Gabdullin Maratbek Tulebergenovich** - Rector (Chairman of the Board) of «KBTU» JSC
- **Omirgali Armanbek Kasymuly** - Director of the Department of Scientific and Technical Projects of «NAC «Kazatomprom» JSC
- **Bezhetsky Sergey Vladimirovich** - Chairman of the Board of «Ulba Metallurgical Plant» JSC
- **Kylyshkanov Manarbek Kalymovich** - Head of the scientific center «Ulba Metallurgical Plant» JSC
- **Medeo Rustam Kolybekovich** – General Director of «Institute of High Technologies» LLP
- **Zharmenov Abdurasul Aldashevich** - General Director of the National Center for Integrated Processing of Mineral Raw Materials of the Republic of Kazakhstan
- **Bitimbaev Marat Zhakupovich** – Doctor of Technical Sciences, Professor, State Tax Service of the National Engineering Academy of the Republic of Kazakhstan
- **Mihalasky Mark** – Uranium Resources Specialist International AEA, Austria
- **Batryshev Didar Galymovich** – PhD, Associate Professor, Vice-Rector for Science and Innovation at «KBTU» JSC
- **Aidarova Saule Baylyarovna** – Doctor of Chemical Sciences, Professor at «KBTU» JSC, Director of the Research Institute «One Belt, One Road»
- **Ataguln Askar Serikbolovich** – Director of the PR Department of «NAC «Kazatomprom» JSC
- **Veretelnikov Nikita Viktorovich** – Chief Manager of DNTP «NAC «Kazatomprom» JSC
- **Burkurmanov Berik Belgebaevich** - Chief Expert of the Department of Scientific and Technical Projects of «NAC «Kazatomprom» JSC
- **Laumulin Chokan Turarovich** – Professor at «KBTU» JSC
- **Kozlovsky Artem Leonidovich** – Head of the Laboratory of Solid State Physics of the Astana Branch of the Institute of Nuclear Physics of the Ministry of Energy of the Republic of Kazakhstan
- **Akhanova Nazym Erlanovna** – Director of the Department of Science and Innovation «KBTU» JSC
- **Gorkun Valentina Ivanovna** – Chief Manager of Scientific Programs of «ANGSTREM» LLP

ORGANISING COMMITTEE

Chairman:

- **Yusupov Meirzhan Bakhitovich** – Chairman of the Board of “NAC “Kazatomprom” JSC

Deputy:

- **Omirgali Armanbek Kasymuly** – Director of the Department of Scientific and Technical Projects of “NAC “Kazatomprom” JSC

Secretary:


- **Veretelnikov Nikita Viktorovich** Chief Manager of DNTP “NAC “Kazatomprom” JSC


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- **Gabdullin Maratbek Tulebergenovich** – Rector (Chairman of the Board) of “KBTU” JSC
 - **Yarmukhamedov Eldos Kairatovich** – Director of the DNTP of “NAC “Kazatomprom” JSC
 - **Kairambaev Samat Kapashevich** – Chief expert of the DSP of “NAC “Kazatomprom” JSC
 - **Tsoi Igor Anatolyevich** – Chief expert of the State Development Department of “NAC “Kazatomprom” JSC
 - **Aidarova Saule Baylyarovna** – Doctor of Chemical Sciences, Professor at “KBTU” JSC, Director of the Research Institute “One Belt, One Road”
 - **Batryshev Didar Galymovich** – PhD, Associate Professor, Vice-Rector for Science and Innovation of “KBTU” JSC
 - **Smolyakova Ekaterina Sergeevna** – Vice-Rector for Social Affairs and educational issues of “KBTU” JSC
 - **Omarbekov Kuanysh Altynbekovich** – Chief Director for Production of “NAC “Kazatomprom” JSC
 - **Ataguln Askar Serikbolovich** – Director of the PR Department of “NAC “Kazatomprom” JSC
 - **Burkurmanov Berik Belgebayevich** – Chief expert of the Department of Science and Technology “NAC “Kazatomprom” JSC
 - **Bezhetsky Sergey Vladimirovich** – Chairman of the Board of “UMP” JSC
 - **Duysebaev Baurzhan Orazovich** – Doctor of Technical Sciences, Scientific Director of “Universal Design Technology Bureau” LLP


- **Zhurinov Murat Zhurinovich** – General Director of “Institute of Fuel, Catalysis and Electrochemistry named after. D.V.Sokolsky” JSC
- **Tasibekov Haydar Suleymanovich** – General Director of “Institute of Chemical Sciences named after. A.B. Bekturov” JSC
- **Mrutyunjay Panigrahi** –Senior associate professor, School of Mechanical Engineering, Vellore Institute of Technology, India
- **Vaclav Bartuska** – Ambassador-at-Large of the Czech Foreign Ministry, Czech Republic
- **Jor-Shan Choi** – Professor, Lawrence Livermore National Laboratory, USA
- **Siddharth Shanker Saxena** – Principal Research Associate (Senior Academic), University of Cambridge, United Kingdom
- **Gunta Kizane** –Professor, Head of Radiation processes department, University of Latvia, Latvia
- **Aviel Verbruggen**– Emeritus Professor University of Antwerp, Belgium
- **Ikeda Hajime** – Associate Professor at the National Institute of Technology, Asahikawa College in the Department of Systems, Control, and Information Engineering, Japan
- **Ryspanov Nurlan Bektasovich** – Doctor of Technical Sciences, President of VAGN, NAGN
- **Ibraev Bauyrzhan Mukhtarkhanovich** – Doctor of Physical and Mathematical Sciences, Chairman of the Supervisory Board of Prevalent Investment Fund SICAV
- **Aliev Seit Abeukhanovich** – Director of the Information Center for Atomic Technologies
- **Tazhibaeva Irina Lashkarovna** – Doctor of Physical and Mathematical Sciences, Professor, Director of the Scientific and Technical Center for the Safety of Nuclear Technologies, State Tax Service IAE NNC RK
- **Skuratova Irina Mikhailovna** – Head of the editorial sector of “KBTU” JSC
- **Akhmetzhanova Dilara Sayanovna** - Chief Manager of the PR Department of “NAC “Kazatomprom” JSC
- **Amanova Saule Kabykenkyzy** - Specialist in the IZBASAR program of “NAC “Kazatomprom” JSC
- **Imankozhoev Aibek Dyushenalievich** - Chief Manager of the PR Department of “NAC “Kazatomprom” JSC
- **Sauatova Zuriyat Sandibievna** - Director of the Department of Nuclear Technologies and RAO of “NAC “Kazatomprom” JSC


Time	May 16, 2024 THU	May 17, 2024 FRI				May 18, 2024 SAT	
08:30-09:00	Registration		Registration				
09:00-09:30	Conference Opening (A minute on safety from KBTU, Anthem)		ORAL PRESENTATION: SECTION 3 (ABAY HALL)	ORAL PRESENTATION: SECTION 2 (INDEPENDENCE HALL)	ORAL PRESENTATION: SECTION 4 (AL-FARABI HALL)	ORAL PRESENTATION: SECTION 7 (HALL 777)	
09:30-10:00							
10:00-11:15	WELCOME AND CONGRATULATORY SPEECHES (INDEPENDENCE HALL)						
11:15-11:30	COFFEE BREAK / Poster presentation						
11:30-13:00	PLENARY SESSION (INDEPENDENCE HALL)		ORAL PRESENTATION: SECTION 1 (ABAY HALL)	ORAL PRESENTATION: SECTION 2 (INDEPENDENCE HALL)	ORAL PRESENTATION: SECTION 4 (AL-FARABI HALL)	ORAL PRESENTATION: SECTION 6 (HALL 777)	
13:00-14:00	Lunch						
14:00-16:00	PLENARY SESSION (INDEPENDENCE HALL)		ORAL PRESENTATION: SECTION 1 (ABAY HALL)	ORAL PRESENTATION: SECTION 2 (INDEPENDENCE HALL)	ORAL PRESENTATION: SECTION 5 (AL-FARABI HALL)	ORAL PRESENTATION: SECTION 6 (HALL 777)	
16:00-16:30	COFFEE BREAK / Poster presentation						
16:30-17:30	ORAL PRESENTATION: SECTION 1 (ABAY HALL)	ORAL PRESENTATION: SECTION 2 (INDEPENDENCE HALL)	ORAL PRESENTATION: SECTION 4 (AL-FARABI HALL)	ORAL PRESENTATION: SECTION 7 (HALL 777)	ORAL PRESENTATION: SECTION 1 (ABAY HALL)	ORAL PRESENTATION: SECTION 5 (AL-FARABI HALL)	ORAL PRESENTATION: SECTION 6 (HALL 777)
18:00	Gathering of participants for a dinner						
18:30	Dinner (by invitation)		Closing ceremony				


Team building
(by invitation)


 - SECTION 1. Geology, geotechnology and mining-preparatory works

 - SECTION 2. Uranium extraction and processing technologies

 - SECTION 3. Technologies and current problems of pre-reactor nuclear fuel cycle

 - SECTION 4. Resources and effective technologies of production of rare and rare-earth metals and high-technology products based on them

 - SECTION 5. Safe operation of nuclear industry enterprises and waste management, occupational safety management

 - SECTION 6. Sustainable development issues, including ecology, social sphere and corporate governance (ESG), legal, macroeconomic and educational aspects of the nuclear industry functioning

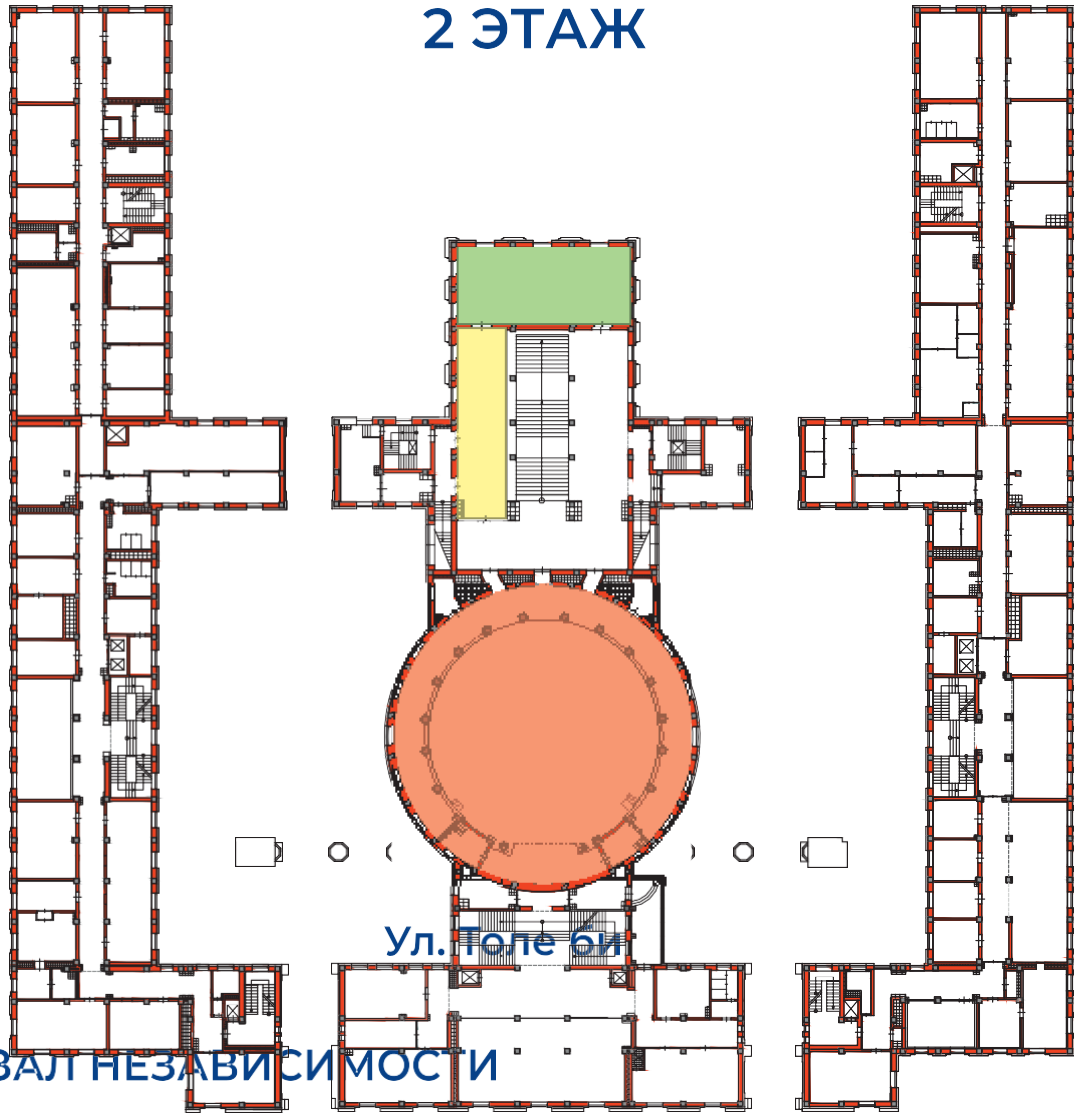
 - SECTION 7. Digitalization, automation and robotization in the nuclear industry

Ул. Казыбек би

2 ЭТАЖ

Ул. Абылайхана

Ул. Панфилова



ЗАЛ НЕЗАВИСИМОСТИ



ЗАЛ №777



ЗАЛ АБАЙ

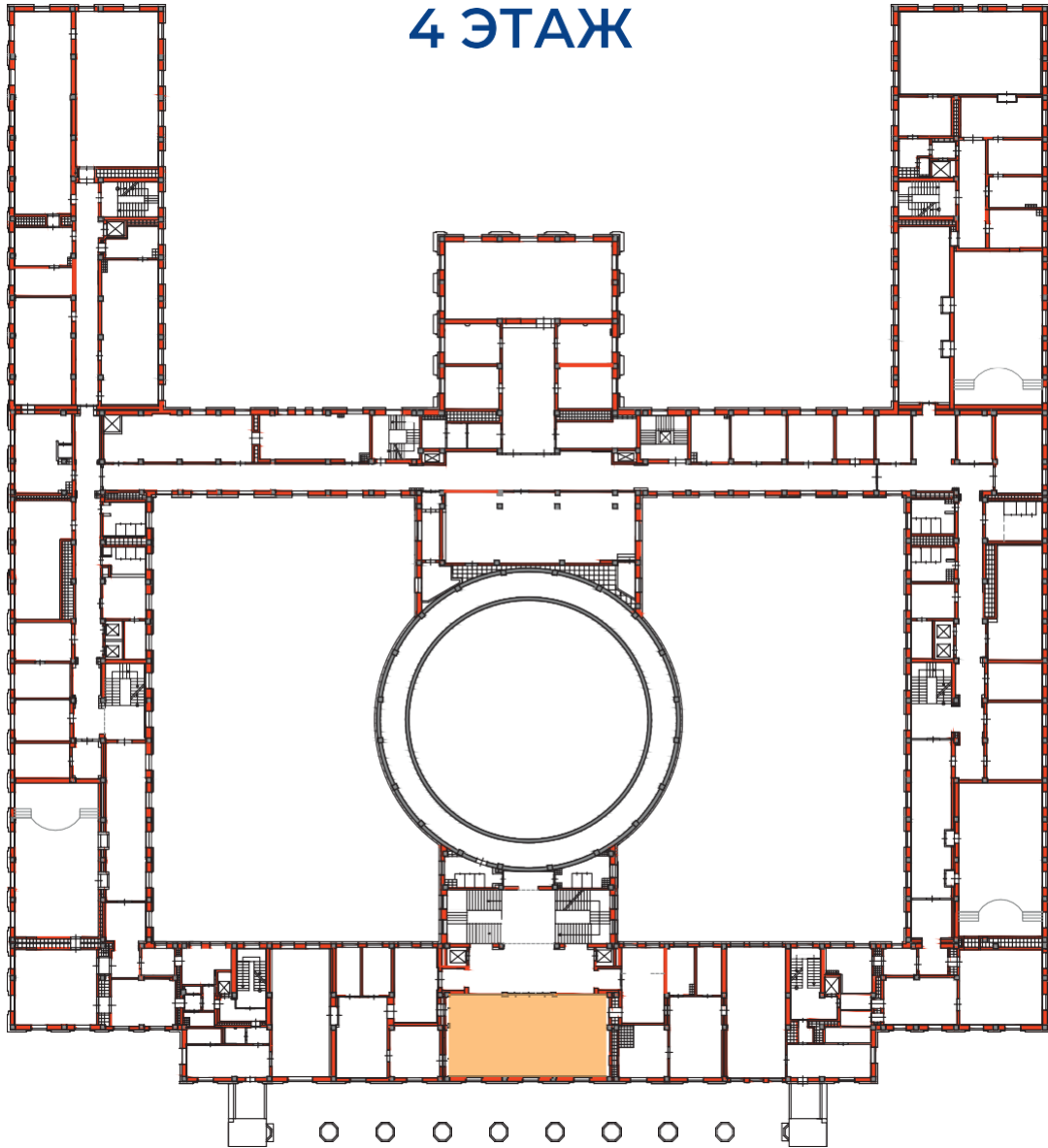


Ул. Казыбек би

4 ЭТАЖ

Ул. Абылайхана

Ул. Панфилова



Ул. Толе би

 - ЗАЛ АЛЬ-ФАРАБИ

PROGRAM

XI International Conference "Development of the Uranium and Rare Metal Industry"

<https://uranconference.kz/>

May 16–18, 2024

Venue: JSC "Kazakhstan-British Technical University"
Almaty, Republic of Kazakhstan

FIRST DAY – MAY 16, 2024		
08:30	Registration of participants	
PLENARY SESSION INDEPENDENCE HALL Chairman: Laumulin Chokan Turarovich - PhD Professor at JSC "KBTU"		
09:30 09:40	Opening of the XI International Conference "Development of the Uranium and Rare Metal Industry" (a minute of safety from JSC "KBTU", Anthem of the Republic of Kazakhstan)	
	Speaker	Report
09:40 09:45	Yusupov Meirzhan Bakhitovich Chairman of the Board "NAC "Kazatomprom" JSC	<i>Welcome speech</i>
09:45 09:50	Sayasat Nurbek Minister of Science and Higher Education of the Republic of Kazakhstan	<i>Welcome speech</i>
09:50 09:55	Gabdullin Maratbek Tulebergenovich Rector (Chairman of the Board) of "KBTU" JSC	<i>Welcome speech</i>
09:55 10:05	Omarbekov Kuanysh Altynbekovich Chief Production Director "NAC "Kazatomprom" JSC	On the strategy and development prospects of "NAC "Kazatomprom" JSC
10:05 10:15	Omirgali Armanbek Kasymuly Director of the Department of Scientific and Technical Projects "NAC "Kazatomprom" JSC	Scientific and technological activities at "NAC "Kazatomprom" JSC
10:15	Bezhetsky Sergey Vladimirovich	History of the plant's development

10:25	Chairman of the Board "Ulba Metallurgical Plant" JSC	
10:25 11:00	<ul style="list-style-type: none"> • "NAC "Kazatomprom" • National Academy of Mining Sciences 	<p><i>Award for contribution to scientific and technical activities of "NAC "Kazatomprom" JSC</i></p> <p><i>Awarding the winners based on the results of the annual competition on rationalization activities of "NAC "Kazatomprom" JSC</i></p>
<i>Group photo</i>		
11:00 11:30	COFFEE BREAK	
11:30 11:50	Mark Mihalasky Uranium Resources Specialist International Atomic Energy Agency Austria	Uranium Exploration, Resources, and Production: A Global Overview
11:50 12:10	Siddharth Shanker Saxena Principal Research Associate (Senior Academic) at Cavendish Laboratory, University of Cambridge United Kingdom	Moving Beyond Greening Extraction and Towards Quantum Technologies
12:10 12:30	Vaclav Bartuska Ambassador-at-Large of the Czech Foreign Ministry Czech Republic	Unique position of Kazakhstan in global uranium play
12:30 12:45	Zharmenov Abdurasul Aldashevich General Director National Center for Integrated Processing of Mineral Raw Materials of the Republic of Kazakhstan	Hybridization in the triad "Education - science - production"
12:45 13:00	Sakhiev Sayabek Kuanyshbekovich Director the Institute of Nuclear Physics	Interaction of the Institute of Nuclear Physics with Kazatomprom and development prospects
13:00 14:00	LUNCH	
PLENARY SESSION INDEPENDENCE HALL Chairman: Duysebaev Baurzhan Orazovich - Doctor of Technical Sciences Professor, Scientific supervisor LLP "Universal Design Technology Bureau"		

14:00 14:15	Aviel Verbruggen Emeritus Professor University of Antwerp Belgium	Technologies of Energy Transformation
14:15 14:30	Bitimbaev Marat Zhakupovich Doctor of Technical Sciences, Professor, State Tax Service ROO "National Engineering Academy of the Republic of Kazakhstan"	Physico-chemical geotechnology of underground leaching, combined with the process of mineralurgy - the basic basis for the creative development of subsoil
14:30 14:45	Boytsov Alexander Vladimirovich Advisor to the First Deputy General Director JSC Techsnabexport Moscow, Russia	Development of the raw material base and uranium production of the state corporation "Rosatom"
14:45 15:00	Mohammad Al-Shannag Professor of Chemical Engineering at the University of Jordan General Manager of Jordan Uranium Mining Company (JUMCO) Jordan	Uranium Mining in Jordan: An Attractive Investment Opportunity
15:00 15:15	Mrutyunjay Panigrahi Senior associate professor, School of Mechanical Engineering, Vellore Institute of Technology India	Extraction of rare earth elements using sustainable green ionic liquid
15:15 15:30	Zeng Weishen DPhil Candidate, Department of International Development Associate DPhil, Oxford China Centre University of Oxford United Kingdom	Approaching Green Energy Complexities in the Global South
15:30 15:45	Akatov Kamil Ergalievich Chairman of the Board JSC "Fund of Sciences"	On the commercialization of the results of scientific and (or) scientific and technical activities
15:45 16:00	Alikulov Shukhrat Sharofovich Vice-Rector for International Relations Navoi Mining and Technology University/JSC "Navoi Mining and Metallurgical Plant" Uzbekistan	On the possibility of using the method of underground leaching of gold in uranium deposits of Uzbekistan
16:00 16:30	COFFEE BREAK	

SECTIONAL REPORTS		
		16.05.2024
SECTION 1		
Geology, geotechnology and mining preparation works		
ABAY HALL		
Chairmen:	Mrutyunjay Panigrahi - PhD Senior associate professor, School of Mechanical Engineering, Vellore Institute of Technology, India	
	Ryspanov Nurlan Bektasovich - Doctor of Technical Sciences, President of the World Academy of Mining Sciences, National Academy of Mining Sciences Kazakhstan	
	Speaker/ Organization	Report/Authors
16:30 17:10	Mrutyunjay Panigrahi PhD, Senior associate professor, School of Mechanical Engineering, Vellore Institute of Technology, India	Lecture: Exploitation and utilization of uranium and rare earth elements-containing natural resources: The Indian scenario
17:10 17:30	Mihalasky Mark Uranium Resources Specialist International Atomic Energy Agency (IAEA) Austria	Global uranium exploration, resources, production, and deposits: The iaea's red book, udepo database, and new developments
17:30-18:00	<i>Gathering of participants for a gala dinner by invitation</i>	
18:30	Gala dinner by invitation	

		16.05.2024
SECTION 2		
Uranium mining and processing technologies		
INDEPENDENCE HALL		
Chairmen:	Vaclav Bartuska Ambassador-at-Large of the Czech Foreign Ministry Czech Republic	
	Ibraev Baurzhan Mukhtarkhanovich Chairman of the Supervisory Board Prevalent Investment Fund SICAV Kazakhstan	
	Speaker/ Organization	Report/Authors
16:30 17:10	Vaclav Bartuska Ambassador-at-Large of the Czech Foreign Ministry Czech Republic	Lecture: The choice for Kazakhstan: joining one side of global competition, or being partner for all
17:10 17:30	Ibraev Baurzhan Mukhtarkhanovich Chairman of the Supervisory Board Prevalent Investment Fund SICAV Kazakhstan	Modern resource base for uranium mining and its prospects

18:00	<i>Gathering of participants for a gala dinner by invitation</i>
18:30	Gala dinner <i>by invitation</i>

16.05.2024		
SECTION 4		
Resources and effective technologies of production of rare and rare-earth metals and high-technology products based on them		
AL-FARABI HALL		
Chairmen:	Siddharth Shanker Saxena - PhD Principal Research Associate (Senior Academic), University of Cambridge United Kingdom	
	Kylishkanov Manarbek Kalimovich Head of the Scientific Center "Ulba Metallurgical Plant" Kazakhstan	
	Speaker/Organization	Report/Authors
16:30 17:10	Siddharth Shanker Saxena Principal Research Associate (Senior Academic), University of Cambridge United Kingdom	Lecture: New Industrial Sectors and Scale-up Potential for Central Asia Based on CRMs
17:10 17:30	Zıǵınder ORÇUN R&D MANAGER Sağlam Metal San. ve Tic. A.Ş, Türkiye	Effect of rare earth elements on copper and its alloys
18:00	<i>Gathering of participants for a gala dinner by invitation</i>	
18:30	Gala dinner <i>by invitation</i>	

16.05.2024		
SECTION 7		
Digitalization, automation and robotization in the nuclear industry		
HALL 777		
Chairmen:	Ikeda Hajime - PhD Associate Professor at the National Institute of Technology, Asahikawa College in the Department of Systems, Control, and Information Engineering Japan	
	Gutoreva Alina Aleksandrovna - PhD Associate. professor at "KBTU" JSC Kazakhstan	
	Speaker/ Organization	Report/Authors
16:30 17:10	Ikeda Hajime Associate Professor at the National Institute of Technology, Asahikawa College in the Department of Systems, Control, and Information Engineering Japan	Lecture: Insights into intelligent mining innovations: the Japanese approach

<p>17:10 17:30</p>	<p>Dragunov Petr Petrovich Director First Mining and Metallurgical Institute of Perm State Medical University Ekaterinburg, Russia</p>	<p>Automated production control system for a uranium mining enterprise (ACUP) (online)</p>
<p>18:00</p>	<p><i>Gathering of participants for a gala dinner by invitation</i></p>	
<p>18:30</p>	<p>Gala dinner <i>by invitation</i></p>	

**SECOND DAY
MAY 17, 2024**

17.05.2024

**SECTION 1
Geology, geotechnology and mining preparation works
ABAY HALL**

Chairmen:	Mrutyunjay Panigrahi - PhD Senior associate professor, School of Mechanical Engineering, Vellore Institute of Technology, India	
	Ryspanov Nurlan Bektasovich - Doctor of Technical Sciences, Corresponding Member World Academy of Mining Sciences, National Academy of Mining Sciences Kazakhstan	
	Speaker/ Organization	Report/Authors
11:30 11:45	Yuri Alexandrovich Arsentiev Ph.D., associate professor Russian State Geological Exploration University d. Moscow, Russia	On some features of calculating the design of technological wells for uranium mining, constructed in permafrost rocks
11:45 12:00	Soloviev Yury Valentinovich Leading geophysicist ORICA-OBI Perth, Australia	WIREBMR - development of uranium using the ISR method
12:00 12:15	Ivanov Aleksandr Georgievich Ph.D., member-correspondent RAEN d. Moscow, Russia	Basic technical requirements for the technology of constructing wells for underground uranium leaching to ensure their trouble-free operation
12:15 12:30	Ivanov Aleksandr Georgievich Ph.D., member-correspondent RAEN d. Moscow, Russia	On the influence of the temperature of polymer casing pipes on the quality of construction of technological wells for uranium mining
12:30 12:45	Hocquet Sébastien R&D ISR Project Leader Orano Mining France	Development of a new uranium mining project: results from production field test on Zuuvch Ovoo Deposit, Mongolia
12:45 13:00	Youcef BENSEDIK R&D Digital Mine Project Leader Orano Mining France	Nuclear measurement logging tools used and in development for the exploration and exploitation of uranium mines
13:00 14:00	LUNCH	
14:00 14:15	Hervé TOUBON R&D and Innovation Director Orano Mining France	Overview of Orano R&D and innovation portfolio
14:15 14:30	Kuzmin Leonid Anatolievich Head of Geological production department, Chief Geologist JSC "RUSBURMASH" Moscow, Russia	Assessment of the reliability of gamma ray logging using the prompt fission neutron logging method during mining and development work at the deposits of the Khiagda ore field

14:30 14:45	Eshmanov Bauyrzhan Asanovich Chief Manager of the Geological and Geotechnological Department LLP "DP "ORTALYK" Shymkent, Kazakhstan	Factors influencing linear reserves of uranium ores
14:45 15:00	Asirbek Nazerke Asirbekkyzy JSC "Volkovgeology" / Department of Geophysics and Seismology, Satbayev University Almaty, Kazakhstan	Study of the properties of ore-bearing rocks according to electrical logging methods (Shu-Sarysu uranium province of Kazakhstan)
15:00 15:15	Shalbaev Zhenis Sarybasovich JSC "Volkovgeology" Almaty, Kazakhstan	Analysis of technologies for targeted delivery of chemical reagents for well construction
15:15 15:30	Shalbaev Zhenis Sarybasovich JSC "Volkovgeology" Almaty, Kazakhstan	Development of a methodology for using an alternative material for waterproofing the annulus during the construction of wells
15:30 15:45	Nygmanova Asel Sakenovna Senior lecturer Kazakh-British Technical University Almaty, Kazakhstan	Shedding light on Mozambique's wealth of rare metals: geological structure and reserves
15:45 16:00	Dr. LI Ziyang Director of China Uranium Geoscientific Committee, CGS Beijing Research Institute of Uranium Geology, CNNC China	A new exudation metallogeny for sandstone-hosted uranium deposit
16:00 16:30	COFFEE BREAK	
16:30 16:45	Wu Qubo Principle Geologist Beijing Research Institute of Uranium Geology, CNNC China	Seismic prospecting technology for sandstone-hosted uranium deposits (SUD), Erlian Basin, northeastern China
16:45 17:00	Toksanbaev Bolatbek Zhakypbekovich PhD, Head of Laboratory of New Directions Institute of High Technologies LLP Almaty, Kazakhstan	Study of methods for identifying signatures of uranium concentrates
17:00 17:15	Ergaliev Zhenis Uzakpaevich Head of the party for digital processing of geological data JSC "Volkovgeology" Almaty, Kazakhstan	Replenishment of the uranium mineral resource base of the Republic of Kazakhstan and prospects for its development
17:15 17:30	Pushchik Evgeniy Vasilievich Project Development Director Innovative Geophysical Service Corporation USA	Exploration of uranium deposits using the "GEODIRECT RSS" method

17:30 17:45	Kaldasov Aidarkhan Kenesovich Ph.D., Deputy Director Kazakh Mining and Metallurgical Institute Astana, Kazakhstan	Inclined-horizontal multilateral wells with sidetracking. The prospect of increasing the yield of productive uranium horizons by underground leaching. Efficient drilling as a priority (online)
17:45 18:00	Nygmanova Asel Sakenovna Senior lecturer Kazakh-British Technical University Almaty, Kazakhstan	Geological analysis of licensed areas in the region of rare-metal pegmatites Altu-Ligonya (South-East Africa)
18:00 18:15	Abeuov Alibek Student Nazarbayev University Astana, Kazakhstan	Three-dimensional reservoir mapping and modeling, uranium-bearing UYUK (lower eocene) formation, South Tortkuduk Uranium Roll-Front Deposit, Chu-Sarysu, Kazakhstan
18:15 18:45	Closing of the XI International Conference "Development of the Uranium and Rare Metal Industry"	

17.05.2024

SECTION 2
Uranium mining and processing technologies
INDEPENDENCE HALL

Chairmen:	Vaclav Bartuska Ambassador-at-Large of the Czech Foreign Ministry Czech Republic	
	Ibraev Baurzhan Mukhtarkhanovich Chairman of the Supervisory Board of Prevalent Investment Fund SICAV Kazakhstan	
	Speaker/ Organization	Report/Authors
09:00 09:30	Duysebaev Baurzhan Orazovich Doctor of Technical Sciences, scientific supervisor Universal design technology bureau Almaty, Kazakhstan	Closed chemical cycles for the uranium industry of Kazakhstan
09:30 09:45	Sharafutdinov Ulugbek Ziyatovich Head of Innovation Center JSC Navoi Mining and Metallurgical Plant Navoi, Uzbekistan	Extraction of molybdenum from carbonate solutions of uranium chemical concentrate processing
09:45 10:00	Kurbanov Mashkhur Amonovich Head of the Central Scientific Research Center JSC Navoi Mining Iron and Steel Works" Navoi, Uzbekistan	The importance of the method of injection of compressed air for intensifying the process of underground leaching
10:00 10:15	Mohammad Alnaief Manager of Jordan Uranium Mining Company (JUMCO) Jordan	Process Development for Uranium Extraction and Purification from Central Jordan Ore Deposits

10:00 10:30	Ashirbekova Saken Dauletaliyeva Ph.D., independent consultant Almaty, Kazakhstan	Processing of oxidized ores by heap leaching followed by processing of productive solutions using liquid extraction followed by electrolysis (SX-EW) to produce commercial metal at enterprises in Kazakhstan
10:30 10:45	Gurova Nadezhda Vasilievna LIMS Department Director/Project Manager JSC "TECHNOLINK" St. Petersburg, Russia	Comprehensive enterprise management solution. Advantages for sorting raw materials, operational quality control in the flow, etc.
10:45 11:00	Noskov Mikhail Dmitrievich Deputy Head for HP JSC "VNIIPromtekhologii" Moscow, Russia	Application of mathematical modeling to intensify the extraction of uranium from remains at the stage of processing blocks by the ISR method (online)
11:00 11:15	Taigushanov Bauyrzhan Zhanaevich Head of Chromatography and Elemental Analysis Department Direct Services LLP Almaty, Kazakhstan	Elemental analysis for Thermo Fisher Scientific equipment
11:15 11:30	COFFEE BREAK	
11:30 11:45	Brecht Alexander Alexandrovich Leading geotechnologist Branch of JSC "Volkovgeology" - "Geotechnocenter" Almaty, Kazakhstan	The influence of the distribution of uranium content in ores of deposits of the formation-infiltration type on the ISR process
11:45 12:00	Danilov Andrey Alexandrovich Chief Project Engineer Institute of High Technologies LLP Almaty, Kazakhstan	Reclamation of aquifers and intensification of uranium mining using the ISR method through the use of waste solutions from spent blocks
12:00 12:15	Danilov Andrey Alexandrovich Chief Project Engineer Institute of High Technologies LLP Almaty, Kazakhstan	Laboratory studies of core material from different horizons of the Inkai deposit using hydrogen peroxide
12:15 12:30	Danilov Andrey Alexandrovich Chief Project Engineer Institute of High Technologies LLP Almaty, Kazakhstan	Conducting pilot tests using sodium nitrite and ozone in leaching
12:30 12:50	Alexey Filippovich Chief Expert Expert Geophysics Limited Canada	Search capabilities of modern aeroelectromagnetic methods (using the examples of Expert Geophysics Limited technologies)
12:50 13:00	<i>Discussion of reports</i>	
13:00 14:00	LUNCH	

14:00 14:15	Podkolzin Ivan Industry Process Consultant Dassault Systemes Kazakhstan	Virtual laboratory of digital core
14:15 14:30	Bektai Yerkin Kaldybayuly Ph.D., Professor NAO "KazNITU named after K.I. Satpaev" Almaty, Kazakhstan	Technological platform of the geotechnological field for underground borehole leaching of uranium (TP GP)
14:30 14:45	Turysbekova Gauhar Seitkhanovna Ph.D., Professor NAO "KazNITU named after K.I. Satpaev" Almaty, Kazakhstan	Increasing the uranium content in productive solutions by bioactivation of leaching solutions during underground borehole leaching
14:45 15:00	Kairat Adyrbekovich Kadyrbekov Doctor of Science, First Deputy General Director JSC "Institute of Chemical Sciences named after A.B. Bekturova" Almaty, Kazakhstan	Analysis of the effectiveness of polymer flocculants in ultrafloccular processing for the purification of recirculated solutions of a uranium mine
15:00 15:15	Tusupbaev Nesipbai Kuandikovich JSC "Institute of Metallurgy and Enrichment" Kazakhstan	Intensification of the process of borehole leaching of uranium using a paramagnetic catalyst of varying dispersion
15:15 15:30	Turlybekova Makpal Nyshangaliyevna PhD student KazNPU named after Abay Almaty, Kazakhstan	Regeneration of iron (III) ions in uranium production using the electrochemical method
15:30 15:45	Ainakulova Dana Tulegenkyzy PhD student School of Materials Science and Green Technologies "KBTU" JSC	Synthesis, characterization and application of poly (styrene-co-glycidyl methacrylate) as reactive dilute to epoxy resin
15:45 16:00	Satanov Mukagali Myrzagalievich General Manager of the State Duma Baiken-U LLP Kyzylorda, Kazakhstan	Selection of rational parameters for chemical treatment of wells during underground leaching of uranium
16:00 16:30	COFFEE BREAK	
18:15 18:45	Closing of the XI International Conference "Development of the Uranium and Rare Metal Industry"	

17.05.2024

SECTION 3

**Technologies and current problems of pre-reactor nuclear fuel cycle
ABAY HALL**

Chairmen:	Jorshan Choi – PhD Lawrence Livermore National Laboratory USA	
	Aliev Seit Abeukhanovich Director of the Information Center for Atomic Technologies. Kazakhstan	
	Speaker/ Organization	Report/Authors
09:00 09:40	Jorshan Choi Lawrence Livermore National Laboratory USA	Lecture: Trends and challenges on uranium supply and demand in a changing technological environment
09:40 09:55	Guzeev Vitaly Vasilievich National Research Nuclear University. MEPHI. Seversky Technological Institute, STI NRU MEPhI Seversk, Russia	The optimization of sintering ceramics on the example of uranium compounds (online)
09:55 10:10	Lebedev Nikolay Mikhailovich Director LLC "Alexandra-Plus" Vologda, Russia	Ultrasonic technologies and equipment for the nuclear fuel cycle
10:10 10:20	Kirillov Evgeniy Viktorovich Head of the Uranium Laboratory JSC "Ulba Metallurgical Plant" Ust-Kamenogorsk, Kazakhstan	Production of non-standard fuel pellets for the Kazakh-French Saiga reactor experiment
10:20 10:30	Kozlovskiy Artem Leonidovich Eurasian National University named after. L.N. Gumilyov, Astana, Kazakhstan/ Institute of Nuclear Physics, Almaty, Kazakhstan	Research of the prospects for using composite ceramics as disperse nuclear fuel
10:30 10:40	Lepsibaev Chingiz Serikovich Chairman of the branch of the Kazakhstan Green Party Baitak Eurasian Expert Council Foundation	Problems of perception of nuclear energy development
10:40 10:55	Nazarov Kuanysh Meyirgazyuly PhD, Head of Laboratory Laboratory of Neutron Physics, RSE Institute of Nuclear Physics ME RK Almaty, Kazakhstan	Development of neutron instruments at the VVR-K research reactor
10:55 11:05	Nurulin Rasim Irshatovich Control Engineer RSE Institute of Nuclear Physics ME RK Almaty, Kazakhstan	Creation of a neutron reflectometry installation based on the VVR-K research reactor
11:05 11:15	Aitkulov Magzhan Temirkhanovich	Research of the operational characteristics of fuel elements in the VVR-K reactor

	Junior Researcher RSE Institute of Nuclear Physics ME RK Almaty, Kazakhstan	
11:15 11:30	COFFEE BREAK	

17.05.2024

SECTION 4
Resources and effective technologies of production of rare and rare-earth metals
and high-technology products based on them
AL-FARABI HALL

Chairmen:	Siddharth Shanker -PhD Principal Research Associate (Senior Academic), University of Cambridge United Kingdom	
	Kylishkanov Manarbek Kalimovich Head of the Scientific Center "Ulba Metallurgical Plant" Kazakhstan	
	Speaker/Organization	Report/Authors
09:00 09:15	Asanov Arstanbek Avlezovich Director Scientific and Engineering Center "Konas" of the Kyrgyz State Technical University Bishkek, Kyrgyzstan	Kyrgyz rare earth industry: status and development prospects
09:15 09:30	Migaenko Ekaterina Sergeevna Senior Process Engineer JSC "GC "Rusredmet" Saint-Petersburg, Russia	Separation of rare earth metals of the medium- heavy group using a mixed extractant taban-tbf- isooctanol-paraffin
09:30 09:45	Povetkin Kirill Alekseevich Senior Process Engineer JSC "GC "Rusredmet" St. Petersburg, Russia	Extraction of tantalum by liquid extraction from solutions of opening iron-titanium cake
09:45 10:00	Rozhkov Sergey Sergeevich Head of JSC "Giredmet" Moscow, Russia	Technology for producing radiation protection elements based on tungsten
10:00 10:15	Pushchik Evgeniy Vasilievich Project Development Director Innovative Geophysical Service Corporation USA	Rare earth metals: prospects for the development of the economy of Kazakhstan

10:15 10:30	Nurbaev Askhat Hydrogeological engineer Branch of JSC "Volkovgeology" "Central Experimental- Methodological Expedition" Almaty, Kazakhstan	Biotechnological innovations in mining: from microorganisms to lanmodulin
10:30 10:45	Podoynikov Mikhail Aleksandorovich Deputy Head of the Scientific Center JSC "UMP" Ust-Kamenogorsk, Kazakhstan	Experience in using baromembrane processes for concentrating and obtaining scandium concentrate from uranium sorption mother liquors
10:45 11:00	Fomenko Artem Sergeevich Senior Researcher "Institute of High Technologies" Almaty, Kazakhstan	Improving the method of associated extraction of rhenium from uranium production resin
11:00 11:15	Seitzhanov Ansar Kayrbekovich Manager JSC "NAC "Kazatomprom" Astana, Kazakhstan	Rare and rare earth metals: analysis of reserves, production and prospects of Central Asia
11:15 11:30	COFFEE BREAK	
11:30 11:45	Zholmagambetov Turar Bibitovich Deputy Chairman of the Industry Committee Astana, Kazakhstan	The role of Kazakhstan in the global market of RM and REM
11:45 12:00	Arbuz Alexander Sergeevich Research Infrastructure Coordinator AOO Nazarbayev University Astana, Kazakhstan	Evaluation of stainless steel melting to obtain dispersed yttria oxide inclusions by induction melting with the addition of yttrium metal
12:00 12:10	Islyakova Svetlana Mordinovna Specialist 1st category JSC "Volkovgeology" Almaty, Kazakhstan	Key consumers and prospects for the rare earth metal market
12:10 12:20	Bochevskaya Elena Gennadijevna Head of the Rare Scattered Elements Sector JSC "Institute of Fuel, Catalysis and Electrochemistry named after. D.V. Sokolsky" Almaty, Kazakhstan	REM-containing resources of Kazakhstan (online)

<p>12:20 12:30</p>	<p>Bulnova Karlygash Zhapabaevna Senior Researcher LLP "Institute of High Technologies" Almaty, Kazakhstan.</p>	<p>Comprehensive study of the mineral composition of core material from waste blocks of enterprises JSC "NAC "Kazatomprom"</p>
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12:30 12:40	Naimanbaev Madali Abdualievich Leading Researcher JSC "Institute of Metallurgy and Processing" Almaty, Kazakhstan	Technologies for the extraction of rare earth metals from ore and technogenic raw materials of Kazakhstan
12:40 12:50	Aidarova Saule Baylyarovna Professor JSC "Kazakhstan-British Technical University" Almaty, Kazakhstan	Colloidal chemical principles for ore beneficiation and extraction
12:50 13:00	<i>Discussion of reports</i>	
13:00 14:00	LUNCH	

17.05.2024		
SECTION 5		
Safe operation of nuclear industry enterprises and waste management, occupational safety management		
AL-FARABI HALL		
Chairmen:	Gunta Kizane Professor, Head of Radiation processes department, University of Latvia Latvia	
	Tazhibaeva Irina Lashkarovna Professor, Director of the Scientific and Technical Center for Nuclear Technology Safety STS IAE NNC RK Kazakhstan	
	Speaker/Organization	Report/Authors
14:00 14:40	Gunta Kizane Professor, Head of Radiation processes department, University of Latvia	Lecture: Radiation safety and assessment of radionuclides in former SALASPILS nuclear reactor selected samples
14:40 14:50	JOR-SHAN CHOI – PhD Lawrence Livermore National Laboratory USA	Advanced reactor 3S (safety, security, safeguards) and waste management for emerging nuclear power countries
14:50 15:00	Anjali Singh Senior Fellow Climate change, urbanization and sustainability indian council for research on international economic relations New Delhi, India	Critical raw materials for low-carbon technologies: advancing supply stability via circular economy implementation.
15:00 15:10	Egorova Tolganay Baurzhanovna Junior Researcher	Behavior of uranium in the reservoir conditions of liquid radioactive waste at a deep disposal site

	Moscow State University named after M.V. Lomonosov Moscow, Russia	
15:10 15:20	Kolesov Viktor Vladimirovich Project Manager JSC "TVEL" Moscow, Russia	Rehabilitation of radiation-contaminated territories and objects
15:20 15:30	Nurmurodov L.T. Samarkand State University named after Sharof Rashidov Samarkand, Uzbekistan	Results of annual effective doses for the population living in the area affected by uranium production
15:30 15:40	Dubkov Boris Andreevich Product Manager Pribori OY Helsinki, Finland	Automated radiation monitoring system based on ThermoFisher Scientific equipment
15:40 15:50	Zaborsky Alexander Vladimirovich Enterprise Data Analyst "Fortis Instruments South" LLC Tashkent, Uzbekistan	Modern technical solutions to some radiation monitoring problems
15:50 16:00	Dzhenbaev Bekmamat Murzakmatovich Doctor of Biological Sciences, Head of laboratory Institute of Biology of the National Academy of Sciences of the Kyrgyz Republic Bishkek, Kyrgyzstan	Safe management of former uranium production sites, uranium and other rare earth metals in the Kyrgyz Republic
16:00 16:30	COFFEE BREAK	
16:30 16:45	Velichkov Kamen Spassov Senior Program Manager and Diplomatic Advisor International Science and Technology Center, Astana, Kazakhstan	Kazakhstan's Nuclear Energy Dilemmas (online)
16:45 16:55	Khlebnikova Irina Anatolyevna Head of Laboratory for Innovative Research and Development JSC "UMP" Ust-Kamenogorsk, Kazakhstan	Development and industrial development of technology for removing tributyl phosphate degradation products from regenerating soda solutions
16:55 17:05	Shaimerdenov Aset Abdullaevich PhD, Head of the Laboratory of Nuclear Energy Safety Problems, RSE Institute of Nuclear Physics ME RK Almaty, Kazakhstan	Application of the VVR--K reactor for testing and characterization of fuel and structural materials
17:05 17:15	Klepikov Alexander Khaidarovich Deputy Director Scientific and Technical Center "Safety of Nuclear Technologies"	Strategy for searching and handling orphan sources of ionizing radiation in the Republic of Kazakhstan

	Almaty, Kazakhstan	
17:15 17:25	Iskakov Manas Myrzashevich Managing Director for Industrial Safety JSC "NAC "Kazatomprom Astana, Kazakhstan"	The influence of dispersed and radionuclide composition of industrial dust on the dose load of personnel of subsidiaries and dependent organizations of JSC "NAC "Kazatomprom"
17:25 17:35	Duganov Alisher Abdrashidovich Radiation monitoring instrument engineer LLP "NPP Gamma" Almaty, Kazakhstan	Analysis of the effective use of equipment in the uranium mining industry: instruments and strategies for ensuring production continuity
17:35 17:45	Mukhortov Mikhail Sergeevich Head of Radiation Safety Department RSE Institute of Nuclear Physics ME RK Almaty, Kazakhstan	Assessment of the radiation impact of IR VVR-K on residents of the Alatau microdistrict of Almaty
17:45 18:00	Pokrovsky Igor Vladimirovich Director LLP "Pribory Kazakhstan" Almaty, Kazakhstan	Radioisotope identifiers for prompt solution of radiation safety problems (online)
18:00 18:15	Zhakupova Gulmira Bakytbekovna East Kazakhstan Technical University named after D.Serikbaev Ust-Kamenogorsk, Kazakhstan	Optimization of the acid fluoride preparation process: key aspects for creating composite materials

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SECTION 6

**Sustainable development issues including environmental, social and corporate governance (ESG), legal, macroeconomic and educational aspects of the nuclear industry
HALL 777**

Chairmen:	Aviel Verbruggen Emeritus Professor University of Antwerp Belgium	
	Alfiya Gilaeva Rashidovna Project Manager JSC "Kazakh-British Technical University" Kazakhstan	
	Speaker/ Organization	Report/Authors
11:30 12:10	Aviel Verbruggen Emeritus Professor University of Antwerp Belgium	Lecture: Climate, sustainability, energy transformation

12:10 12:30	Weishen Zeng DPhil Candidate University of Oxford, United Kingdom	Approaching effects of green energy transition: China, Kazakhstan, And The Global South
12:30 12:45	Nikolas P. van der Meulen Group Leader Laboratory of Radiochemistry, Paul Scherrer Institute, Villigen-PSI, Switzerland Center for Radiopharmaceutical Sciences ETH-PSI-USZ, Paul Scherrer Institute Villigen-PSI, Switzerland	Pursuing nuclear medicine theragnostics in Switzerland using radiometals: an overview
12:45 13:00	Aliev Seit Abeukhanovich Director ICAT Kazakhstan	Disseminating Knowledge about the Nuclear Industry in Promoting Sustainable Development Principles
13:00 14:00	LUNCH	
14:00 14:15	Bekkuliev Ardak Bagdatovich Chief Expert Production Department "NAC "Kazatomprom" JSC Astana, Kazakhstan	Mechanisms of energy saving and energy efficiency and decarbonization in "NAC "Kazatomprom" JSC
14:15 14:30	Zhumadilova Zhuldyz Amangazievna Chief Project Coordinator Foundation "Center for Scientific and Technological Initiatives "Samgau" Astana, Kazakhstan	Support for research activities in "SAMRUK- KAZYNA" JSC
14:30 14:45	Blynsky Alexander Petrovich Project Manager Scientific and Technical Center "Safety of Nuclear technologies" Almaty, Kazakhstan	On the fulfillment by the Republic of Kazakhstan of its obligations arising from the Joint Convention on the Safety of Spent Fuel Management and Radioactive Waste Management
14:45 15:00	Faleev Dmitry Gennadievich Senior Researcher Institute of High Technologies LLP Almaty, Kazakhstan	Remediation of territories of Southern Kazakhstan affected by uranium mining: problems and prospects
15:00 15:15	Panova Elena Nikolaevna Chief Engineer of the project "NAC "Kazatomprom" JSC Astana, Kazakhstan	On the issue of disposal of drilling sludge during the liquidation of the consequences of subsoil use at uranium mining enterprises "NAC "Kazatomprom" JSC
15:15 15:30	Akentieva Ekaterina Valeryevna Junior research assistant	On the development of methods for protecting birds on power lines (online)
	RSE at the PHW "Institute of Zoology" of the KN of the Ministry of Internal Affairs of the Republic of Kazakhstan Almaty, Kazakhstan	

15:30 15:45	Orynbekova Zaure Orynbekovna Director of the almaty branch of the RSE National Institute of Intellectual Property	Patenting of technical solutions in the field of uranium ore mining and processing
15:45 16:00	Nurjaz Akylbek Project Leader , PhD researcher Green Industrial Policy in the Age of Rare Metals (GRIP-ARM), International Institute of Social Studies, Erasmus University Rotterdam, Netherlands	Technological innovation and structural transformation in Kazakhstan: the role of industrial policy and foreign direct investment in critical raw materials
16:00 16:30	COFFEE BREAK	
16:30 16:45	Kairambayev Samat Kapashevich Chief Expert of the Department of Industrial Safety NAC "Kazatomprom" JSC"	Monitoring of vegetation cover in the territories of uranium mining mines of "NAC "Kazatomprom" JSC
16:45 17:00	Akbasova Amankul Dzhakanovna Director of the Research Institute of Ecology International Kazakh-Turkish University named after Khoja Ahmed Yasawi Turkestan, Kazakhstan	New Fertilizer and Land Reclamation Agent from Sulfur-Containing Wastes of Sulfuric Acid Production (online)
17:00 17:15	Ostapchuk Vitaly Olegovich General manager "OST engineering" LLP Almaty, Kazakhstan	Compliance with modern environmental trends and reduction of environmental risks through the implementation of automated monitoring systems
17:15 17:30	Baymagambetova Aigul Sailauovna PhD student RGP "Institute of combustion problems" Almaty, Kazakhstan	Processing of waste from sulfuric acid production used in the uranium industry
17:30 17:45	Altynbek Akmurat Duysenbayly Chief Manager of the Department of Development and Business Administration "Semizbay-U" LLP Astana, Kazakhstan	Development of intellectual potential of enterprise employees
17:45 17:55	Vladimir Ilyich Zatolokin Vice President MATRIX Official Almaty, Kazakhstan	Matriz Official and Priz Guru Inc. solutions for innovation management
17:55 18:05	Bokovaya Natalya Nikolaevna	Contribution of NAC Kazatomprom JSC in maintaining the level of personnel qualifications

	Director of Department of Accounting and Control of Uranium and Nuclear Materials NAC "Kazatomprom" JSC Astana, Kazakhstan	
18:05 18:15	Nikhanova Dana Ualikhanovna General manager NAC "Kazatomprom" JSC Astana, Kazakhstan	Development of nuclear forensics in the Republic of Kazakhstan
18:15 18:45	Closing of the XI International Conference "Development of the Uranium and Rare Metal Industry"	

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SECTION 7
Digitalization, automation and robotization in the nuclear industry
HALL 777

Chairmen:	Ikeda Hajime - PhD Associate Professor at the National Institute of Technology, Asahikawa College in the Department of Systems, Control, and Information Engineering Japan	
	Alina Gutoreva Alexandrovna - PhD Associate Professor at "KBTU" JSC Kazakhstan	
	Speaker/ Organization	Report/Authors
09:00 09:10	Serbin Anton Vladimirovich Engineer Seversk Technological Institute, NRNU MEPhI Seversk, Russia	Software package for planning and controlling the work of the mine using the In-Situ Leaching (ISL) method (online)
09:10 09:20	Gutsul Mikhail Vladimirovich Junior Researcher Seversk Technological Institute, NRNU MEPhI Seversk, Russia	Virtual model of the uranium mining process using the ISL method (online)
09:20 09:30	Istomin Andrey Dmitrievich Associate Professor Seversk Technological Institute, NRNU MEPhI Seversk, Russia	Mobile application "Well" for field personnel of the ISL uranium mining site (online)
09:30 09:40	Zaitsev Oleg Igorevich Production Optimization Engineer "Production Optimization Department", SLB company Astana, Kazakhstan	Unlocking the potential of a deposit using the PIPESIM steady-state flow simulator
09:40 09:50	Nurkas Asem "Reservoir Development Department", SLB company Astana, Kazakhstan	Modeling the underground leaching process of uranium using the Intersect simulator

09:50 10:00	Aldamzharov Bekbol Amanbayevich Geotechnologist TOO "SP "Inkai" Shymkent, Kazakhstan	Use of 3D modeling of the ISL process in mine development planning
10:00 10:10	Slatin Anton S. Head of Project Department TOO "FindexIT" Almaty, Kazakhstan	Predictive analytics. Mobile workforce and operations management system. Laboratory information management system (LIMS)
10:10 10:20	Tsoi Dana Dmitrievna Head of the Mixed Reality Research Laboratory International University of Information Technologies Almaty, Kazakhstan	Application of immersive technologies in industry
10:20 10:30	Nikitina Yulia Gennadiyevna Geologist "Institute of High Technologies" LLP Almaty, Kazakhstan	Modeling uranium reserves for designing an opening system at the pilot site of the Khairkhan deposit (Mongolia)
10:30 10:45	Sagatbekov Chingiz Nurbekovich Head of Geological Modeling Department "KATCO" JV LLP Astana, Kazakhstan	Implementation of 3D modeling as part of the workflows of geological assessment and development of uranium deposits. KATCO experience.
10:45 11:00	Uezbaev Timur Nurzhanovich Chief Expert NAC "Kazatomprom" JSC Almaty, Kazakhstan	Method for eliminating defects in the casing string
11:00 11:15	Kozhakhhanov Symbat Baltalievich Master "National Research Nuclear University "MEPhI" Moscow, Russia	Topical issues of digitalization of the radiation safety system at uranium mining facilities
11:15 11:30	COFFEE – BREAK	

POSTER SESSION PROGRAM

XI International Conference “Development of the Uranium and Rare Metal Industry”

<https://uranconference.kz/>

Almaty, Republic of Kazakhstan

May 16–18, 2024,

Venue: JSC "Kazakhstan-British Technical University"

FIRST DAY – May 16, 2024

From 11:00 - 16:30

SECTION 1

Geology, geotechnology and mining preparation works

Alikulov Shukhrat Sharofovich

Vice-rector international relations, Professor

Navoiy state university of mining and technologies

- Research on the processes of colmatation of rocks in the near-filter zone of the formation

Gregoire Andre

PhD, Chief geologist

- Uranium exploration in Paleocene sequence in Central Uzbekistan

Bagirov Ali Pashaevich

Head of control system service

LLP "JV "UGKhK" mine "Southern Inkai"

- Automated complex for loading nitrous oxide URANATUK 44/8

Bekzhan Smagambetov

University of Lorraine

Nancy, France

- Sedimentary facies and reservoir architecture control on reservoir acidification for isr - observations, concepts, and analogs, Ikansk Formation, South Tortkuduk, Kazakhstan

Sharipov Rustam Khasanovich

Head of the laboratory of advanced materials and technologies of Kazakhstan-British Technical University JSC

- Study of the possibility of nickel mining using physical and chemical geotechnology methods

Maldybaev Galymzhan Kenzhekeevich

Associate Professor

JSC "Kazakhstan-British Technical University"

- Study of the possibility of extracting useful components from ash and slag waste from thermal power plants

Dragunov Petr Petrovich

Technical head of the direction “Digital modeling of technological process”

First Mining and Metallurgical Institute of Yekaterinburg

- Automated production control system for a uranium mining enterprise (ACUP)

<p>Vasyuta Andrey Evgenievich Chief specialist of JSC RUSBURMASH</p> <ul style="list-style-type: none"> • Regularities of geological, geotechnological and economic parameters in multifactorial analysis of a system for constructing an optimized network of technological wells
<p>Zhansugurov Dauren Orashovich General Director of JV Budenovskoe LLP</p> <ul style="list-style-type: none"> • Exploration and assessment work of section 6-7 at the Budenovskoye uranium deposit. Stages of development and prospects of JV BUDYONOVSKOE LLP
<p>Ivannikov Sergey Igorevich Ph.D., Researcher, Federal State Budgetary Institution Institute of Chemistry, Far Eastern Branch of the Russian Academy of Sciences</p> <ul style="list-style-type: none"> • Determination of uranium by instrumental neutron activation analysis in the presence of trace impurities with a high neutron absorption cross section (online)
<p>Irgebaev Daulet K. JSC "Kazakhstan-British Technical University"</p> <ul style="list-style-type: none"> • Recent Advances in Uranium Exploration

SECOND DAY – May 17, 2024

From 11:00 - 16:30

SECTION 2 Uranium mining and processing technologies

<p>Turysbekova Gaukhar Seythanovna Ph.D., professor KazNITU</p> <ul style="list-style-type: none"> • Development of uranium ISR technology using innovative methods
<p>Meshkov Evgeniy Yurievich Head of Laboratory of JSC "VNIPIpromtekhnologii"</p> <ul style="list-style-type: none"> • Sorption processing of productive solutions of SPV of uranium at the VOLVOVOLONOYE deposit's pilot plant
<p>Koval Ilya Dmitrievich JSC "Kazakhstan-British Technical University"</p> <ul style="list-style-type: none"> • Revolutionary Developments in The Mining Sphere: In-Situ Leaching of Uranium
<p>Dauletbayev Akim Serikovich Lecturer Almaty Technological University</p> <ul style="list-style-type: none"> • Optimizing Ultra-Floc Treatment Parameters for Enhanced Purification of Recirculating Solutions at Uranium Mines
<p>Polinovsky Konstantin Dmitrievich Refining specialist JSC Moscow Plant for Processing Special Alloys</p> <ul style="list-style-type: none"> • Methods for regenerating sulfuric acid from mother liquors of sulfuric acid EPS
<h3>SECTION 3</h3> <h3>Technologies and current problems of the pre-reactor nuclear fuel cycle</h3>

<p>Kadyrzhanov Dauren Bakhytzhanovich Deputy Head of Industrial Safety Department LLP SP Inkai</p> <ul style="list-style-type: none"> Studying the prospects for using oxide ceramic materials as alternative materials for storing spent nuclear fuel
<p>SECTION 4</p> <p>Resources and effective technologies for the production of rare, rare-earth metals and high-tech products based on them</p>
<p>Islyakova Svetlana Mordinovna Specialist 1st category Branch of JSC "Volkovgeology" - "Geotechnocenter"</p> <ul style="list-style-type: none"> Key consumers and prospects for the rare earth metal market
<p>Soloviev Alexey Alexandrovich Department head JSC "VNIPIpromtekhnologii"</p> <ul style="list-style-type: none"> Sorptive two-stage production of conditioned scandium trifluoride from underground uranium leaching solutions
<p>SECTION 5</p> <p>Safe operation of nuclear industry enterprises and management technogenic waste</p>
<p>Sadenova Marzhan Anuarbekovna Leading Researcher NJSC "D. Serikbayev East Kazakhstan technical university"</p> <ul style="list-style-type: none"> Development of technology for producing anhydrite binder based on technogenic raw materials from the Ulba Metallurgical Plant
<p>SECTION 6</p> <p>Sustainability issues (ESG), legal, macroeconomic and educational aspects of the nuclear industry</p>
<p>Orazbayev Sagi Assistant professor NJSC "KazNU named after. al-Farabi"</p> <ul style="list-style-type: none"> Obtaining of silicon nanoclusters by the PECVD method
<p>Panova Elena Nikolaevna Ph.D., Chief Project Engineer Institute of High Technologies LLP</p> <ul style="list-style-type: none"> ESAP roadmap as a tool for sustainable development
<p>Omarova Aizhan Kudaibergenovna Researcher Institute of High Technologies LLP NAC Kazatomprom JSC</p> <ul style="list-style-type: none"> On the issue of utilization of drill cuttings when eliminating the consequences of subsoil use at uranium mining enterprises of NAC Kazatomprom JSC
<p>Subbotin Sergey Borisovich Senior Researcher Institute of radiation safety and Ecology RSE NNC RK</p> <ul style="list-style-type: none"> Assessment of the possible impact of the consequences of uranium mining at the Grachevskoye deposit on the radioecological situation in the village of Soumalkol

THIRD DAY – May 18, 2024

Cultural program (Team building)	
Venue: OI-QARAGAI Mountain Resort	
08:30	Gathering, KBTU (parking on the side of Kazybek Bi street)
09:00	Departure to the location
10:00	Arrival, breakfast
11:00	Games
14:00	Lunch
15:00	Afternoon activities, based on interests
17:00	Gathering of participants and boarding the bus Departure to the city

