



**IV INTERNATIONAL SCIENTIFIC  
FORUM  
“NUCLEAR SCIENCE AND  
TECHNOLOGIES”  
dedicated to the 65<sup>th</sup> anniversary of the  
RSE INP**

**14th International conference  
“Nuclear and Radiation Physics”**

**3<sup>rd</sup> International conference  
“Nuclear and Radiation Technologies in Medicine,  
Industry and Agriculture”**

**6<sup>th</sup> Summer School “ISTC-CERN-Kazakhstan”**

**September 26-30, 2022**

**Almaty, Republic of Kazakhstan**

**FORUM ORGANIZERS**

Ministry of Energy of the Republic of Kazakhstan  
RSE "Institute of Nuclear Physics" of the Ministry of  
Energy of the Republic of Kazakhstan  
RSE "National Nuclear Center of the Republic of  
Kazakhstan" of the Ministry of Energy of the Republic of  
Kazakhstan  
L.N. Gumilyov Eurasian National University  
Al-Farabi Kazakh National University  
Joint Institute for Nuclear Research, JINR, Dubna

**INTERNATIONAL ADVISORY BOARD**

**Chairman:** Akchulakov B.U. (ME RK, Kazakhstan)  
**Vice-Chairman:** Sakhiyev S.K. (INP, Kazakhstan)  
**Board Members:**  
Bonatsos D. (NCSR "Demokritos", Greece)  
Garibov A.A. (NNRC, Azerbaijan)  
Itkis M.G. (JINR)  
Kadyrzhanov K.K. (ENU, Kazakhstan)  
Karakozov B.K. (Kazakhstan)  
Kimura M. (JAEA, Japan)  
Kodina G.E. (FGBU GNC FMBC, Russia)  
Trubnikov G.V. (JINR)  
Merola M. (ITER, France)  
Peterson R.J. (Colorado University, USA)  
Remnev G.E. (TPU, Russia)  
Rusek K. (Warsaw University, Poland)  
Sanjarova N.I. (VNIISXP AE, Russia)  
Spitaleri C. (Catania University, Italy)  
Stebelkov V.A. (ITEF, Russia)  
Sydykov E.B. (ENU, Kazakhstan)  
Tuimebayev Zh.K. (KazNU, Kazakhstan)  
Tostevin J.A. (Surrey University, UK)  
Harakeh M. (Kernfysisch Versneller Instituut, Netherlands)  
Hosoda T. (Chiyoda Technol Corporation, Japan)  
Yuldashev B.S. (AS, Uzbekistan)

**ORGANISING COMMITTEE**

**Chairman:** Nurmaganbetov Zh.D. (ME RK, Kazakhstan)  
**Vice Chairman:** Burtebayev N. (INP, Kazakhstan)  
Abramovich S.N. (VNIIEF, Russia)  
Abishev M.E. (KazNU, Kazakhstan)  
Artemov S.V. (INP, Uzbekistan)  
Batyrbekov E.G. (NNC RK, Kazakhstan)  
Boztosun I. (Akdeniz University, Turkey)  
Borisenko A.N. (AO PNT, Kazakhstan)  
Dalkarov O.D. (FIAN, Russia)  
Janseitov D.M. (INP, Kazakhstan)  
Zholdybayev T.K. (INP, Kazakhstan)  
Zdorovets M.V. (INP, Kazakhstan)  
Zelenskaya N.S. (MSU, Russia)  
Kadmenskiy S.G. (Voronezh University, Russia)  
Kawamura H. (Chiyoda Technol Corporation, Japan)  
Kislitsin S.B. (INP, Kazakhstan)  
Krasikova R.N. (IMCh RAS, Russia)  
Lukashenko S.N. (VNIISXRAE, Russia)  
Nelson H. (Argon National Laboratory, USA)  
Potekayev A.N. (TSU, Russia)  
Rusakov V.S. (MSU, Russia)  
Sadikov I.I. (INP, Uzbekistan)  
Sakuta S.B. (NIC Kurchatov's Institute, Russia)  
Skakov M.K. (NNC RK, Kazakhstan)  
Tazhibayeva I.L. (NTSC, Kazakhstan)  
Turebayev A.B. (ISTC)  
Trzaska W. (University of Jyväskylä, Finland)  
Uglov V.V. (BSU, Belarus)  
Shvetsov V.N. (JINR)  
Shibata T. (JAEA, Japan)  
Short M. (MIT, USA)

**FORUM TOPICS**

**1. Nuclear Physics**

- Mechanisms of nuclear reactions and structure of nuclei
- Heavy and super heavy elements: synthesis and fission
- Nuclear physics of low and medium energy, nuclear astrophysics
- Activities in the sphere of nuclear data
- High energy physics and elementary particles
- Cosmic rays and neutrino physics
- Dark Matter and Dark Energy

## 2. Radiation Solid State Physics and problems of Materials Science

- Formation and evolution of defects in solids
- Physics of condensed states
- Structural and fuel materials of nuclear and fusion facilities
- Modification of materials with the beams of plasma and charged particles
- New materials and methods of their preparation, nano-materials

## 3. Atomic Energy

- Nuclear research and power plants
- Controlled thermonuclear fusion
- Safety of nuclear energy and issues of non-proliferation of nuclear materials and technologies

## 4. Radiation Ecology and Methods of Analysis

- Radio-ecological studies of former nuclear test sites, assessment of risks and dosimetry issues.
- Technologies for reducing ecological risk of the radiation-hazardous facilities and territories, radioactive wastes management.
- Analytical methods in scientific-applied research and Nuclear Forensics.

## 5. Nuclear and Radiation Technologies in medicine, industry and agriculture

- Nuclear and radiation technologies in medicine
- Radiation technologies in industry and agriculture.

### FORUM VENUE

The International Scientific Forum will be hosted in Almaty at the RSE «Institute of Nuclear Physics», the Hotel Novotel Almaty City Center.

### FORUM LANGUAGES

Forum languages are Russian and English.

### REGISTRATION FORM (on website)

#### ABSTRACTS & POSTERS

Registration to the Forum, abstract and poster (in Russian or English) are to be submitted on the site of Forum <https://indico.alem.cloud/event/1/>.

The Book of Forum Abstracts will be published by the start of the Forum.

Report materials will be published in the journal indexed by the Kazakh database.

Selected proceedings will be published in the journal, indexed by Web of Science or Scopus data base. All papers will be reviewed.

The rules for proceedings editing and the deadlines for submission to the Forum Secretariat will be available on the website <https://indico.alem.cloud/event/1/>.

#### REGISTRATION FEE

Registration fee is 100\$ for Kazakhstani participants and 150\$ for non-Kazakhstani participants, and to be paid until **August 28, 2022**.

The registration fee covers technical services, book of Forum abstracts, coffee breaks and official reception.

Payment of the registration fee is made by payment transfer to the bank account of RSE "Institute of Nuclear Physics".

#### Requisites for payment transfer:

The Republic State Enterprise acting on a self-supporting economic basis "Institute of Nuclear Physics", Ministry of Energy of the Republic of Kazakhstan (RSE "INP" ME RK)

Republic of Kazakhstan, 050032, Almaty, Alatau, Ibragimov str. 1, Tel.: 8 (727) 386-68-00

BIN 990440002559

Account KZ42856000000004087 (KZ tenge)

Account KZ788560000009622250 (USD dollars)

Account KZ248560000009622252 (Euro)

Account KZ84856000000025447 (Russian rubles)

BIC KCJBKZKX

KBE16

JSC «Bank Center Credit»

Purpose of payment "Registration fee for participation

in the International Scientific Forum, full name of the participant".

### IMPORTANT DATES

**July 31, 2022** - submission of the Registration Form to the Forum Organizational Committee

**July 31, 2022**- the deadline for paper abstracts submission

**August 21, 2022** - issue of the second announcement

**August 28, 2022** - confirming the payment of the registration fee

### THE CULTURAL PROGRAM

There are several options for the cultural program.

- Sharyn Canyon
- Kolsay Lakes
- Shymbulak Mountain Resort

### FORUM MODES

On-line and off-line

### CONTACT DETAILS FORUM SECRETARIAT ADDRESS

RSE "Institute of Nuclear Physics", ME RK  
Kazakhstan, 050032, Almaty, Ibragimov str. 1,

The Forum Secretariat:

**Aidos Issadykov**

e-mail: [a.issadykov@inp.kz](mailto:a.issadykov@inp.kz),

**Karlygash Munasbaeva**

e-mail: [munasbaeva@inp.kz](mailto:munasbaeva@inp.kz)

Tel: (727) 386-68-00,

Fax: (727) 386-52-60

<https://indico.alem.cloud/event/1/>  
<http://www.inp.kz>