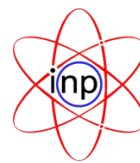




D. Serikbayev

EKTU



INSTITUTE  
OF NUCLEAR  
PHYSICS

# PROGRAM

**OF THE XVI INTERNATIONAL SCIENTIFIC CONFERENCE**  
«SOLID STATE PHYSICS», DEDICATED TO THE MEMORY  
OF PROFESSOR PLOTNIKOV SERGEY VIKTOROVICH



**2025**



April 3 - 4



9:00 - 18:00



EKTU



Ust-Kamenogorsk,  
D. Serikbayev STR., 19



[www.ektu.kz](http://www.ektu.kz)










# PROGRAM



3 April

-  **9:00 - 10:00 - CDIO Engineering Project Exhibition**  
Location: Foyer in front of the pillared hall
-  **9:00 - 10:00 - Coffee break**
-  **10:00 - 13:00 – The plenary session** XVI INTERNATIONAL SCIENTIFIC CONFERENCE «SOLID STATE PHYSICS», DEDICATED TO THE MEMORY OF PROFESSOR PLOTNIKOV SERGEY VIKTOROVICH
-  **Location:** The Pillared Hall
-  **Zoom:** <https://us06web.zoom.us/j/82274693866?pwd=wf0rf88JANNBhuBO60j3fdLFZReJnF.1>  
**Conference ID:** 822 7469 3866  
**Access code:** 564842

|               |   |
|---------------|---|
| 9:00 – 9:50   | Registration of conference participants by QR code  |
| 10:00 – 10:05 | Official opening of the conference<br><b>KONURBAYEVA ZHADYRA TUSUPKANOVNA</b><br>Member of the Board-Vice Rector for Science and Innovation of D. Serikbayev East Kazakhstan Technical University |
| 10:05 – 10:10 | The video «Professor Plotnikov Sergey Viktorovich»  |
| 10:10 – 10:20 | Welcome speech<br><b>RAKHMETULLINA SAULE ZHADYGEROVNA</b><br>Chairman of the Management Board-Rector of D. Serikbayev East Kazakhstan Technical University  |



# PROGRAM



3 April

10:20 – 10:30

Welcome speech

**SAKHIYEV SAYABEK KUANYSHBEKOVICH**

Doctor of Physical-Mathematical Sciences, General Director of the Nuclear Physics of the Ministry of Energy of the Republic of Kazakhstan

10:30 – 10:45

**SKAKOV MAZHYN KANAPINOVICH**

Doctor of Physical-mathematical Sciences, Professor of the EKU named after S.Amanzholov, Academician of the National Academy of Natural Sciences of Kazakhstan

10:45 – 11:00

**SHUNKEEV KUANYSHBEK SHUNKEEVICH**

Doctor of Physical-mathematical Sciences, Professor of Aktobe Regional University named after K. Zhubanov, Director of SRC «Radiation physics of materials»

11:00 – 11:15

**RAMAZANOV TLEKKABUL SABITOVICH**

Doctor of Physical-mathematical Sciences, Professor of Al-Farabi Kazakh National University, First Vice-President of the Kazakhstan Physical Society, Academician of the National Academy of Sciences under the President of the Republic of Kazakhstan

11:15 – 11:30

**KYLYSHKANOV MANARBEEK KALYMOVICH**

Doctor of Physical-Mathematical Sciences, Head of the Scientific Center of Ulba Metallurgical Plant JSC

11:30 – 11:50

**GAVRILENKO OLEG DMITRIEVICH**

Doctor of Geological Sciences, Executive Director of Geology, Qaz Gold Minerals LLP

**Topic of the report:** «Methods and technologies of prospecting and evaluation of mineral deposits using artificial intelligence»



# PROGRAM



3 April

11:50 – 12:10

**MUKHAMETULI BAGDAULET**

PhD, Deputy Director of the Laboratory for Scientific Work of the LNF, JINR

**Topic of the report:** «Possibilities of the JINR Laboratory of Neutron Physics named after I.M. Frank»

12:10 – 12:30

**BEKBAEV ASKHAT KAUSOVICH**

PhD, Deputy Chief Engineer KIR VVR-K

**Topic of the report:** «INP research base. The complex of the VVR-K research reactor»

12:30 – 12:45

**SERIKOV TIMUR MARATOVICH**

PhD, Associate Professor, Karaganda University named after Academician E. A. Buketov

**Topic of the report:** «Synthesis and research of the properties of heterostructural photocatalysts for the production of «green» hydrogen and water purification from synthetic organic pollutants»

12:45 – 13:00

**AMANZHOL TURLYBEKULI**

PhD, assoc.Professor, Senior Researcher, National Laboratory Astana, Nazarbayev University

**Topic of the report:** «Legacy of a bright star: Sergey Viktorovich's contribution to biomedical materials science»

**13:00 – 14:30 – LUNCH**

**Location: The Presidential Office**



# PROGRAM



3 April

**14:30-17:30**

**Guided tour of the university's research centers and laboratories**  
(3 hours)

| Time   | Name<br>Centers and laboratories   |
|--|--|
| Transfer to building No. 1 on Protozanov 69    |  |
| 14:40 - 15:40                                  | Lu-Ban Workshop  |
| Transfer to the main building at Serikbayev 19 |  |
| 15:50 - 16:10                                  | Smart engineering Competence Center  |
| 16:10 - 16:20                                  | Scientific Center «Protective and functional coatings»   |
| 16:20 - 16:35                                  | Competence Center in the field of construction and building materials  |
| 16.35 - 16.50                                  | «INDUSTRIAL AI» Competence Center<br>Center of competence and technology transfer in the field of Information Technology |
| 16.55 - 17.15                                  | Kazakh-German Institute of Science and Technology Laboratories   |
| 17.15 - 17.30                                  | The VERITAS Center of Excellence   |

**18.00 - DINNER**



# PROGRAM



4 April

09:00 - 12:00

Holding a section meeting

| Time, room        | Section name  |
|-------------------|---|
| 09.00<br>G1 - 302 | <p><b>Section «Phase and structural transformations in metals and alloys, modification of physical and mechanical properties of metals and alloys»</b></p> <p>Chairman: <b>Skakov Mazhyn Kanapinovich</b><br/>           Doctor of Physical-Mathematical Sciences, Professor of the EKU named after S.Amanzholov, Academician of KAZNAEN</p> <p>Secretary: <b>Yerbolatova Gulnara Ualkhanovna</b>, PhD, Associate Professor of D. Serikbaev EKTU</p>  |
| 09.00<br>G3 - 214 | <p><b>Section «Point and extended defects in wide gap systems: oxide, nitride, ceramics, minerals, organic and photonic crystals; inherent and impurity luminescence of condensed media»</b></p> <p>Chairman: <b>Shunkeev Kuanyshbek Shunkeevich</b><br/>           Doctor of Physical-mathematical Sciences, Professor, Director of the Scientific Research Center «Radiation Physics of Materials» Aktobe Regional University named after K. Zhubanov</p> <p>Secretary: <b>Tabiyeva Yerkezhan Yerkinbekovna</b>, PhD, Leading researcher at the VERITAS Center of Excellence at the D. Serikbaev EKTU</p> |
| 09.00<br>G1 - 115 | <p><b>Section «Nanostructured materials and nanotechnology»</b></p> <p>Chairman: <b>Kylyshkanov Manarbek Kalymovich</b>,<br/>           Doctor of Physical-Mathematical Sciences, Head of the Scientific Center of Ulba Metallurgical Plant JSC</p> <p>Secretary: <b>Bayatanova Layla Bolatkhanovna</b>, PhD, Associate Professor of the D. Serikbaev EKTU</p>  |



# PROGRAM



4 April

09:00 - 12:00

Holding a section meeting

| Time, room        | Section name  |
|-------------------|---|
| 09.00<br>GL - 115 | <b>Section «Surface treatment and production of coatings, thin films and their characteristics»</b><br>Chairman: <b>Amanzhol Turlybekuli</b> , PhD, Associate Professor, Senior Researcher at National Laboratory Astana, Nazarbayev University<br>Secretary: <b>Aringozhina Zarina Yerzhanovna</b> , Researcher at the Scientific Center «Protective and Functional Coatings» of the D. Serikbaev EKTU |
| 09.00<br>G1 - 223 | <b>Section «Functional materials used in modern energy»</b><br>Chairman: <b>Bagdaulet Mukhametuli</b> , PhD, Deputy Director of the Laboratory for Scientific Work of the LNF, JINR «Capabilities of the I.M. Frank Laboratory of Neutron Physics (LNF) of JINR»<br>Secretary: <b>Yesskermessov Didar Kairatovich</b> – PhD, Leading researcher D. Serikbaev EKTU                                       |

12:00 – 13:00 – Closing of the conference

Location: G1-101 auditorium

|               |   |
|---------------|---|
| 12.00 – 12.30 | <b>KONURBAYEVA ZHADYRA TUSUPKANOVNA</b><br>Member of the Board-Vice Rector for Science and Innovation of the D.Serikbayev EKTU                    |
| 12.30 – 13.00 | <b>SKAKOV MAZHYN KANAPINOVICH</b><br>Doctor of Physical-Mathematical Sciences, Professor at EKTU named after S.Amanzholov, Academician of KAZNAEN |