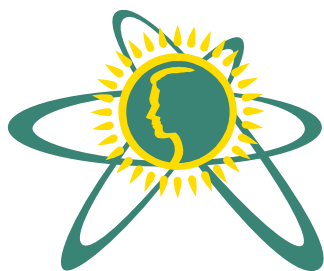


# THIRD INFORMATION STATEMENT



**XIX R&D Contest- Conference Between Young Scientists and Specialists of the RSE NNC RK**

**September 29- October 1, 2020**

**Kurchatov, East Kazakhstan Region, Republic of Kazakhstan**

At the 1<sup>st</sup> of October, 2020 the **XIX** Annual R&D Contest-Conference Between Young Scientists and Specialists in online mode came to the end.

Young scientists and specialists provided 44 works to be considered by jury .

After listening to the speakers, the jury secretariat received 9 voting bulletins.

When determining the winners, the scores received by the competitors by the following criteria were considered:

- 1) relevance of work;**
- 2) practical value (significance to the issue the work is dedicated to);**
- 3) scientific, engineering level, novelty of results;**
- 4) level of completeness of work;**
- 5) personal contribution of the competitor;**
- 6) style of presentation and degree of knowledge of the subject;**

taking into account specifics of research areas:

- **fundamental – level of publications;**
- **engineering and technical – assessment of technical solutions;**
- **applied – compatibility.**

**Results of the contest-conference:**

**I. First place**, diploma and money reward were awarded to :

**Olga Bukina** – junior research associate of the Laboratory for Testing construction and fuel materials of the Department for Material Engineering Tests of the branch «Institute of Atomic Energy» of the RSE «NNC RK» for the work «Material Engineering Researches of Solid Solutions Based on Uranium and Zirconium Oxides » - applied researches.

**II. Second place**, diplomata and money reward were awarded to:

1. **Olzhas Zhanbolatov** – 2<sup>nd</sup> category engineer of the Laboratory for Research of Thermal Physical and Neutronic characteristics of irradiating installations of the branch «Institute of Atomic Energy » RSE «NNC RK» for his work «Calculation of the curve of power of the experimental device with converter of neutrons » - fundamental researches.

2. **Alexander Larionov** – junior research associate of the Laboratory for Applied and Theoretical Material Science of the Department for Radiation Physics of the Solid

Object of the RSE «Institute of Nuclear Physics » PK for his work «Development and research of neutron-absorbing coating of titanium boride » - applied researches.

III. **Third place**, diplomas and money rewards were awarded to:

1. **Abylai Uzbekov** – senior research associate of the Group for Analysis and Scientific Researches of the Center for Collection and Processing of Special Seismic Information of the RSE «Institute of Geophysical Researches» of RK for his work «Geophysical Field and Seismic Activity of Central Kazakhstan.» - applied researches.

2. **Kuahysh Samarkhanov** - junior research associate of the Laboratory for Intrachannel Tests of the Department for Materials Tests of the branch «Institute of Atomic Energy » RSE «NNC RK» for his work « A Technique of Conducting Reactor Tests of radiation-resistant fiber LEDs and optical-fiber sensors in the near infrared range with in-situ control » - applied researches.

3. **Vladimir Kolbin** – 2<sup>nd</sup> category engineer of the Laboratory for Elemental Analysis of the Department for Analytical Researches of the branch «Institute of Radiation Safety and Ecology» RSE «NNC RK» for his work «Determining uranium in urine using inductively-coupled plasma method, as a biophysical method of internal dosimetry » - applied researches.

IV. **Certificates** and recognition money prizes were awarded to:

**Reward for the Best Design of Work** was given to **Vadim Bochko** , engineer of the Laboratory for Material Science Tests of the branch «Institute of Atomic Energy» of the RSE «NNC RK» for his work «Research into generation and emission of tritium and helium from lead-lithium eutectics of Li15.Pb in conditions of neutron exposure» - applied researches

**Reward for Originality of Work** was given to **Saulet Askerbekov**, engineer of the Laboratory for Safety Issues in Atomic Energy of the RSE «Institute of Nuclear Physics» of RK for his work «Research into emission of tritium from lithium metatitane in course of a long-term irradiation experiment at VVR-K reactor» - applied researches

**The Best speaker's** reward was given to **Tatyana Ponomareva**, specialist of the Group for Radiology of Agricultural Plants of the Department for Complex Researches of Ecosystems of the branch «Institute of Radiation Safety and Ecology» of the RSE «NNC RK» for her work «Assessment of Impact of Edaphic Factors on Migration of Artificial Radionuclides in «Soil-Plant» System» - applied researches.

– **The Active participant's** reward was given to **Zarina Serzhanova**, head of the **Group for Experimental researches of The laboratory for** Experimental Researches of Transfer Mechanisms of the Department for Development of Environmental Monitoring Systems of the branch «Institute of Radiation Safety and Ecology» of the RSE «NNC RK », for her work «Peculiarities in distribution of tritium in the zone of impact of radioactively -contaminated STS territories ».

**The reward for innovational work** was given to **Artur Surayev**, research associate of the Laboratory for Researches of Thermophysical и Neutronic Characteristics of Irradiating Installations of the branch «Institute of Atomic Energy» of

the RSE «NNC RK» for his work «Peculiarities in numerical modeling of the process of destruction of the wall of steel with the flow of melt ».

Also, recognition gifts were awarded to:

**The employees of the branch «Institute of Radiation Safety and Ecology» of the RSE «NNC RK»:**

- the reward for practical significance of work was given to **Pavel Krivitskiy**, head of the Group of Field spectrometry of the Department of Radiation Researches and Ecosystems Restoration of the branch «IRSE» of the RSE «NNC RK», for his work «Assessment of radioactive contamination of the territory of «Balapan» test site (applied researches);
- the reward for significant contribution to improvement of methodical base of the NNC RK was given to **Almira Raimkanova**, engineer of the Group for Experimental Researches of Transfer Mechanisms of the Department for Development of Environmental Monitoring Systems of the branch «IRSE» of the RSE «NNC RK» for her work «Methodological approaches to research of radiocarbon in soil in the venues of nuclear tests » (applied researches);
- the reward for implementation of IT-technologies was given to Ilya Dorozhkon, engineer of the Group for Analysis of Research Results of the Department for Researches and Restoration of the branch «IRSE» of the RSE «NNC RK», for his work «development of the database of field spectrometry data » (applied researches) and **Artyom Kharchenko**, engineer of the Laboratory for Nuclear-Physical Methods of Analysis of the Department for Analytical Researches of the branch «IRSE» of the RSE «NNC RK», for his work «Development of software for calculation of inner exposure doses using biokinetic models » (applied researches);
- the reward for successful debut was given to **Yelena Sysoyeva**, specialist-ecologist of the Laboratory for Radioecological Researches of the Department for Complex Researches of Ecosystems of the branch «Institute of Radiation Safety and Ecology» of the RSE «NNC RK» for her work «Research into distribution of artificial radionuclides in ground litter» (applied researches);
- the reward for professionalism was given to **Togzhan Toktaganov**, engineer of the Laboratory for Monitoring Researches of the Department for Development of Environment Monitoring Systems of the branch «IRSE» of the RSE «NNC RK», for his work «Assessment of conditions for formation of natural and artificial waters at the STS territory » (applied researches)
- the reward for high level of young specialists preparation was given to the advisor of the work «Assessment of Impact of Edaphic Factors on Migration of Artificial Radionuclides in «Soil-Plant» System», **Yelena Polivkina**, head of the Group for Radioecology of Agricultural Plants of the Department for Comprehensive Studies of Ecosystems of the branch «IRSE» of the RSE «NNC RK», Ph.D. (biology)

**The employees of the branch «Institute of Atomic Energy » of the RSE «NNC RK»:**

- the reward for the best experimental work «Research of hydrogen isotopes interaction with lithium CPS in conditions of reactor radiation using dynamic sorption method»

(engineering and technical researches) was given to **Yevgeniy Tulubayev**, junior research associate of the Laboratory for Intrachannel Tests of the branch «IAE» of the RSE «NNC RK»;

- the reward for contribution to provision of safety at the STS, was given to **Pavel Krivitskiy**, head of the Group of Field spectrometry of the Department of Radiation Researches and Ecosystems Restoration of the branch «IRSE» of the RSE «NNC RK» for his work « Assessment of radioactive contamination of the territory of «Balapan» test site (applied researches) ;
- the reward for original experimental technique was given to **Berik Medetbekov**, junior research associate of the Laboratory for Neutron Physics of the branch «IAE» of the RSE «NNC RK» for his work «Identification of admixtures in ITER concrete samples using INAA method at «IVG.1M» reactor» (applied researches),.

#### **The employees of the RSE «Institute of Geophysical Researches» of RK**

- the reward for use of comprehensive approach to solve the tasks was given to: **Igor Marchenko**, engineer-geologist of the Group for Comprehensive Geoecological Researches of the RSE «IGR» ME RK, for his work «Geological and geographical survey of the traces of tectonic disturbances as possible channels for migration of artificial radionuclides» (applied researches) and **Pavel Ryabenko**, research associate of the Technical Support Group of the Center for collection and processing special seismic information of the RSE «IGR» ME RK, for his work «Seismic event of the 11<sup>th</sup> of November, 2018 near Mayotte island according to the data gathered by monitoring stations in Kazakhstan » (applied researches);
- the reward for active participant was given to **Abylai Uzbeko**, senior research associate of the Group for Analysis and Scientific Researches of the Center for Collection and Processing of Special Seismic Information of the RSE «IGR» ME RK, for his work «Geophysical fields and seismic activity in the Central Kazakhstan » (applied researches)

#### **from the council of young scientists and specialists:**

- the reward for successful debut was given to **Yelena Sysoyeva**, specialist-ecologist of the Laboratory for Radioecological Researches of the Department for Complex Researches of Ecosystems of the branch «Institute of Radiation Safety and Ecology» of the RSE «NNC RK» for her work «Research into distribution of artificial radionuclides in ground litter» (applied researches);

V. Each participant of the **XIX Annual R&D Contest-Conference Between Young Scientists and Specialists of the RSE «NNC RK»** was awarded the «certificate of participation» in the contest-conference.

VI. Provided works are recommended to be published in the «Bulletin of the NNC RK» journal after consideration of works by the editorial board and editing the papers according to the requirements of the journal.