



International Scientific and Practical CONFERENCE

Environmental protection and radioactive waste management of scientific and industrial centers. Decommissioning of nuclear and radiation hazardous facilities.

September 23-24, 2020

PROGRAM

II International Scientific and Practical Conference,
dedicated to the 60th anniversary of RADON FSUE
“Environmental protection and radioactive waste management
of scientific and industrial centers. Decommissioning of nuclear
and radiation hazardous facilities»

SEPTEMBER, 23

10.00-10.15 Conference opening

Luzhetsky A.V.
Director General

GENERAL SESSION

Chairman: **Vanina E.A.**,

Doctor of Physical and Mathematical Science, Professor, Scientific Secretary RADON FSUE

10.15-10.35 Sorption and migration properties of clay minerals in relation to various radionuclides

Kalmykov S.N.
Corresponding member of the Academy of Science, Professor, Head of Chemistry Faculty of Lomonosov Moscow State University

10.35-10.55 Concept of tritium-containing water waste treatment

Magomedbekov E.P.
Director of Institute of Modern Materials in Energetics and Nanotechnologies, D.Mendeleev University of Chemical Technology of Russia

10.55-11.25 Metal decontamination during decommissioning of radiation hazardous facilities

Doilnitsyn V.A.
Head of Radioecology and Radiochemical Engineering Technology Department, Saint Petersburg State Institute of Technology

11.25-11.45 Modern sorption materials for purification of liquid radioactive waste from cesium and strontium radionuclides

Milyutin V.V.
Head of the Laboratory A.N. Frumkin Institute of Physical Chemistry and Electrochemistry. The Russian Academy of Science

11.45-12.15 Break

SECTION SESSION:

*Chairman: **Seteikin A.Yu.***

Candidate of Physical and Mathematical Science, Head of Department RADON FSUE

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| 12.15-12.30 | Improving of cleaning technology for Kola NPP evaporator concentrate from radionuclides using «Thermoxide» sorbents | A.E. Savkin
RADON FSUE |
| 12.30-12.45 | Mobile facility for electro-chemical decontamination of metal surfaces | Yurchenko A.Yu
RADON FSUE |
| 12.45-13.00 | Definition of radionuclides speciation for predicting of their migration behavior | Romanchuk A.Yu.
Lomonosov Moscow State University |
| 13.00-13.15 | Pilot-industrial conditioning of spent ion-exchange resins | Ostashkina E.E.
RADON FSUE |
| 13.15-13.40 | 3D Modeling of radionuclides migration at FSUE «RADON» site for safety assessment of near surface storage facilities | Neuvazhaev G.D.
Nuclear Safety Institute of the Russian Academy of Science |
| 13.40-13.55 | Immobilization of liquid tritium-containing waste | Muratov O.E.
Public Council of State Corporation «Rosatom» |
| 13.55-14.10 | Technology of purification of radioactively contaminated soil by hydroseparation method with reagent treatment of the selected fraction | Mariakhin M.A.
Joint Stock Company «A.A. Bochvar High-technology Research Institute of Inorganic Materials» |
| 14.10-14.25 | Break | |

SECTION SESSION

*Chairman: **Savkin A.E.***

Candidate of Technical Sciences, expert of Project Office, FSUE RADON

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| 14.25-14.40 | Application of chlorella microalgae in systems of wastewater treatment from toxic and radioactive contamination | Martynov D.Yu.
A.N. Kostyakov Russian Scientific Research Institution of Hydraulic Engineering and Amelioration |
| 14.40-15.05 | Assessment of the efficiency of radioactive waste processing at the incineration plant | Mamonov A.V.
JSC «SSC RIAR» Research Institute of Atomic Reactors |
| 15.05-15.20 | Application of the hydrodynamic monitoring system to ensure the environmental safety of the deep geological liquid radioactive waste facility | Kokorev O.N. Seversk Technological Institute.
National Research Nuclear University |
| 15.20-15.45 | Application of bentonite as a buffer material at radioactive waste repositories | Tyupina E.A.
D.Mendeleev University of Chemical Technology of Russia |
| 15.45-16.00 | Personal training in the field of nuclear facilities decommissioning | Maksimushkina A.V.
National Research Nuclear University MEPhi |

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| 16.00-16.15 | Existing problems of staff recruitment in the field of nuclear facilities decommissioning and preparation for decommissioning | Savin D.A.
National Research nuclear University MEPhI, «National Technical Center Nuclear Radiation Safety» |
| 16.15-16.30 | Construction of three-dimensional information models of NF using modern methods of laser scanning on the example of FSUE RADON | Lunov D. M.
Nuclear Safety Institute of the Russian Academy of Science |

SEPTEMBER, 24

SECTION SESSION

*Chairman: **Pitertsev M. Yu.**
Chief of Project Office, FSUE RADON*

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| 09.00-09.25 | Concept of development of plasma technology at FSUE «RADON» | Knyazev I.A.
RADON FSUE |
| 09.25-09.50 | Cement compound as matrix for HLRW | Kapustin V.V.
A.A. Bochvar High-technology Research Institute of Inorganic Materials |
| 09.50-10.05 | Development of information-analytical systems to improve the efficiency of activities in the field of radioactive waste management | Ilyasov D.F.
Nuclear Safety Institute of the Russian Academy of Science |
| 10.05-10.20 | Software tool for automation of accounting and control procedure for solid radioactive waste received for disposal | Dzhamavov A.A.
National Operator for Radioactive Waste Management, FSUE |

10.20-10.35 Break

SECTION SESSION

*Chairman: **Milyutin V.V.**
Doctor of Chemical Science, Head of the Laboratory
A.N. Frumkin Institute of Physical Chemistry and Electrochemistry. The Russian Academy of Science*

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| 10.35-11.00 | Monitoring of radioactivity in the environment of the Moscow Region | Gordeev S.K.
RADON FSUE |
| 11.00-11.15 | Advanced bentonite clay based materials for construction and recovery of engineering safety barriers | Ilina O.A.
Bentonite Company |
| 11.15-11.40 | Radiation monitoring of natural radionuclides in oil and gas production enterprises and packaging for storage of radioactive waste containing natural radionuclides | Ashrapov U.T.
The Institute of Nuclear Physics of the Academy of Sciences of the Republic of Uzbekistan |

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| 11.40-12.05 | Methodological support for measuring radiation characteristics of waste | Sergeecheva Y.V.
Joint Stock Company «A.A. Bochvar High-technology Research Institute of Inorganic Materials» |
| 12.05-12.20 | About a complex of works on the choice of a strategy for the management of accumulated radioactive waste of FSUE RADON | Samoilov A.A.
Nuclear Safety Institute of the Russian Academy of Science |
| 12.20-12.35 | Characterization of standardized quality indicators of water (technological) mediums of water-cooled nuclear reactors. Decrease of liquid radioactive waste formation | Frolova T.N.
Shiprepairing Center «Zvyozdochka» |
| 12.35-13.05 | Break | |

SECTION SESSION

*Chairman: **Polkanov M.A.**
Project Manager of RADON FSUE*

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| 13.05-13.20 | Long-term probabilistic safety assessment of the near surface disposal facility for radioactive waste | Gorbacheva N.V.
State Scientific Institution «The Joint Institute for Power and Nuclear Research – Sosny» |
| 13.20-13.45 | Problems of radiation safety ensuring during long-term centralized storage of radioactive waste in the Republic of Belarus | Kuzmina N.D.
State Scientific Institution «The Joint Institute for Power and Nuclear Research – Sosny» |
| 13.45-14.10 | CIRES, an optimized route for radioactive waste produced by decommissioning of nuclear facilities | Jean-Michel Boniface
ANDRA |
| 14.10-14.35 | Finnish experience in securing nuclear and radiation hazardous facilities during exceptional situations: case 2005 flooding at the Gulf of Finland | HellenbergTimo
Hellenberg International Ltd |
| 14.35-15.00 | Innovation Center for Nuclear Knowledge of FSUE RADON as a priority of personnel policy and applied science of the Division of Final Stage of the Life Cycle | Vanina Elena
Professor, Scientific Secretary of RADON FSUE |
| 15.00-15.15 | Advanced Innovations for Environmentally Safe and Efficient Waste Treatment Technologies for Decommissioning | Arthur S. DiGiovine
Studsvik Inc. |
| 15.15-15.30 | Open discussion.
Closing of the conference.
Summarizing. | Vanina Elena
Professor, Scientific Secretary of RADON FSUE |