

# BREAKOUT SESSION

September 13 (Wednesday)

## Section “Radiation Ecology and Medicine”

Afternoon session (14:00–16:00)

Conference hall of “Mayak” hotel

*Chairpersons:* A. Panitskiy (Kazakhstan), T. Kovács (Hungary)

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1	<b>30<sup>th</sup> ANNIVERSARY OF THE INSTITUTE OF RADIATION SAFETY AND ECOLOGY. PAST, PRESENT, FUTURE OF SEMIPALATINSK TEST SITE</b> <i>A.O. Aidarkhanov (Kazakhstan, branch IRSE NNC RK)</i>	14:00–14:15
2	<b>TOWARDS VISUALIZING RADIOACTIVE SUBSTANCES IN THE GLOBAL RADIATION ENVIRONMENT USING AN INTEGRATED RADIATION IMAGING SYSTEM</b> <i>Yu. Sato (Japan, Japan Atomic Energy Agency)</i>	14:15–14:30
3	<b>UPTAKE OF PLUTONIUM BY PLANTS WITH DIFFERENT SOIL MOISTURE</b> <i>S.N. Lukashenko (Russia, All-Russian Scientific Research Institute of Radiology and Agroecology)</i>	14:30–14:45
4	<b>EARTHWORMS AND THEIR ORGANS AS INDICATORS OF RADIOACTIVE CONTAMINATION</b> <i>T. Kovács (Hungary, Institute of Radiochemistry and Radioecology, University of Pannonia)</i>	14:45–15:00

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5	<b>FEATURES OF THE NATURAL ENRICHMENT OF SUFACE AND GROUND WATERS WITH URANIUM ISOTOPES IN RIVER BASINS OF THE KYRGYZ TIEN-SHAN AND THE PAMIR-ALAY</b> <i>T.B. Tuzova (Kyrgyzstan, Institute of Water Problems and Hydropower Engineering NAS KR)</i>	15:00–15:15
6	<b>DEVELOPMENT OF A HARDWARE AND SOFTWARE SYSTEM TO SEARCH AND IDENTIFY GAMMA-EMITTING NUCLIDES BASED UPON COMPUTER-AIDED LEARNING</b> <i>I.S. Bredikhin (Russia, LLC “Gammatek”)</i>	15:15–15:30
7	<b>EFFECTS OF LOW IONIZING RADIATION DOSES ON THE COLONIC MICROFLORA AND GENE EXPRESSION IN LUNGS DURING THE EXPERIMENT</b> <i>N.Zh. Chaizhunosova (Kazakhstan, Non-profit JSC “Semei Medical University”)</i>	15:30–15:45
8	<b>EFFECTS OF LOW IONIZING RADIATION DOSES ON MORPHOFUNCTIONAL CHANGES IN LUNGS AND THE SMALL INTESTINE DURING THE EXPERIMENT</b> <i>D.M. Shabdarbayeva (Kazakhstan, Non-profit JSC “Semei Medical University”)</i>	15:45–16:00

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# BREAKOUT SESSION

September 14 (Thursday)

## Section “Radiation Ecology and Medicine”

Morning session (9:00–13:05)

Conference hall of “Mayak” hotel

*Chairpersons: Ye. Mustafina (Kazakhstan), Yu. Sato (Japan)*

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| 9  | <b>ASSESSMENT OF HEAVY METAL AND RADIONUCLIDE-CONTAMINATED SURFACE WATER BODIES IN THE SOUTH-WESTERN PART OF THE ALTAI TERRITORY</b><br><i>O.Yu. Korovina (Russia, I.I. Polzunov Altai State Technical University)</i> | 09:00–09:15 |
| 10 | <b>RADIOLOGICAL STATE OF BIG HOOFED ANIMALS INHABITING THE TERRITORY OF THE SEMIPALATINSK TEST SITE</b><br><i>A.V. Panitskiy (Kazakhstan, branch IRSE NNC RK)</i>  | 09:15–09:30 |
| 11 | <b>EPR DOSIMETRY STUDY OF HIROSHIMA ATOMIC BOMB VICTIMS</b><br><i>K. Zhumadilov (Kazakhstan, L.N. Gumilyov ENU)</i>  | 09:30–9:45  |
| 12 | <b>FUNDAMENTALS TO DEVELOP A SUSTAINABLE MANAGEMENT OF LAND RESOURCES AND WATER BODIES IN THE FORMER STS AREA</b><br><i>N.V. Larionova (Kazakhstan, branch IRSE NNC RK)</i>  | 09:45–10:00 |
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13	<b>STUDY OF CONCENTRATIONS OF HEAVY ELEMENTS AND RADIONUCLIDES IN ENVIRONMENTAL COMPARTMENTS OF ALMATY CITY</b> <i>M.V. Krasnopyorova (Kazakhstan, RSE “Institute of Nuclear Physics”)</i>	10:00–10:15
14	<b>REDISTRIBUTION PATTERN OF RADIONUCLIDE CONTAMINATION IN ECOSYSTEM COMPONENTS OF STS WATER BODIES</b> <i>A.K. Aidarkhanova (Kazakhstan, branch IRSE NNC RK)</i>	10:15–10:30
15	<b>DEVELOPMENT OF A SERIES OF SCINTILLATION COCKTAILS TO DETERMINE TRITIUM</b> <i>A.V. Mikhailov (Russia, All-Russian Scientific Research Institute of Radiology and Agroecology)</i>	10:30–10:45
16	<b>RESEARCH INTO THE CURRENT RADIOLOGICAL STATE OF AIR AND MONITORING OF STS AND ADJACENT AREA OBSERVATIONS</b> <i>D.V. Turchenko (Kazakhstan, branch IRSE NNC RK)</i>	10:45–11:00
–	<i>Coffee break</i>	11:00–11:20
17	<b>TESTING A HYDROGEOLOGICAL DECONTAMINATION METHOD FOR PROCESS PIPELINES AT DEPOSITS OF UNDERGROUND URANIUM LEACHING IN BOREHOLES</b> <i>P.A. Blynskiy (Kazakhstan, “Institute of High Technologies”)</i>	11:20–11:35
18	<b>TRITIUM REDISTRIBUTION IN THE “WATER – SOIL – AIR” SYSTEM</b> <i>L.V. Timonova (Kazakhstan, branch IRSE NNC RK)</i>	11:35–11:50

19	<b>CURRENT LEVELS OF CONTAMINATION OF WATER BODIES OF DIFFERENT TYPES WITH RADIONUCLIDES AT STS</b> <i>Zh.Ye. Tleukanova (Kazakhstan, branch IRSE NNC RK)</i>	11:50–12:05
20	<b>MEASUREMENT OF HEAVY METALS CONCENTRATION IN THE AIR OF AKMOLA REGION</b> <i>A. Zhumalina (Kazakhstan, L.N. Gumilyov ENU)</i>	12:05–12:20
21	<b>APPLICATION OF THE NEUTRON-ACTIVATION ANALYSIS TO DETERMINE THE ELEMENTAL COMPOSITION OF SAMPLES</b> <i>Ye.K. Sokolenko (Kazakhstan, RSE “Institute of Nuclear Physics”)</i>	12:20–12:35
22	<b>CONTENT OF CHEMICAL ELEMENTS IN SUSPENDED AIR PARTICLES OF UST-KAMENOGORSK CITY</b> <i>N.Zh. Mukhamediyarov (Kazakhstan, branch IRSE NNC RK)</i>	12:35–12:50
23	<b>RESEARCH INTO THE AERIAL UPTAKE OF HTO VAPORS BY PEPPER AND EGGPLANT</b> <i>Ye.N. Polivkina (Kazakhstan, branch IRSE NNC RK)</i>	12:50–13:05
–	<b><i>Lunch</i></b>	13:05–14:00

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*Chairpersons: N. Larionova (Kazakhstan), T. Tuzova (Kyrgyzstan)*

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24	<b>FEATURES OF CONTAMINATION WITH GAMMA-EMITTING RADIONUCLIDES IN AREAS ADJACENT TO THE “EXPERIMENTAL FIELD” TEST LOCATION</b> <i>Ye.V. Mustafina (Kazakhstan, branch IRSE NNC RK)</i>	14:00–14:15
25	<b>RESEARCH IN THE BASIN OF A TRANSBOUNDARY KARABALTA RIVER IN THE “KYRGYZSTAN-KAZAKHSTAN” SECTION</b> <i>M.A. Severinenko (Kazakhstan, RSE “Institute of Nuclear Physics”)</i>	14:15–14:30
26	<b>DEVELOPMENT OF A PEDESTRIAN GAMMA SPECTROMETRIC SURVEY SOFTWARE</b> <i>I.P. Dorozhkin (Kazakhstan, branch IRSE NNC RK)</i>	14:30–14:45
27	<b>ECOLOGICAL AND GENETIC ASSESSMENT OF THE CONSEQUENCES OF RADIATION INFLUENCE ON CONTAMINATED AREAS (SECOND REPORT)</b> <i>A. Bigaliyev (Kazakhstan, Al-Farabi KazNU)</i>	14:45–15:00

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28	<b>PORTABLE HIGH RESOLUTION GAMMA SPECTROMETER AUTOMATICALLY IDENTIFYING RADIONUCLIDES</b> <i>I.V. Pokrovskiy (Kazakhstan, "Pribory Kazakhstan" Ltd.)</i>	15:00–15:15
29	<b>RESEARCH INTO THE IMPACT OF A RADIATION FACTOR ON STRUCTURAL AND ANATOMICAL INDICATORS OF PLANTS UNDER CONDITIONS OF A SIMULATED EXPERIMENT</b> <i>Ye.S. Sysoyeva (Kazakhstan, branch IRSE NNC RK)</i>	15:15–15:30
–	<i>Coffee break</i>	16:00–16:20

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