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Japanese Science and Technology Agency – JST, Japanese International Cooperation Agency - JICA
 Institute of Environmental Radioactivity, Fukushima University, Japan (IER)
 University of Tsukuba, Japan (UT)
 State Agency of Ukraine of Exclusion Zone Management- SAUEZM
 National Academy of Sciences of Ukraine- NASU
 National Centre for Nuclear Research, Poland (NCBJ), TVIS POLSKA, LLC

International Seminar
Environmental Radioactivity Risks in Ukraine:
Results of pre-war research and contemporary challenges

Conference Center of the Hotel “ibis Warszawa Centrum”, Al. Solidarności 165, Wola, Warsaw, Poland

AGENDA
5 October 2022

Registration in the lobby of “ibis Warszawa Centrum”

8:30-9:00

Pre-register for those not on the agenda by emailing the Organizing Committee Secretariat:
errusecretariat@gmail.com - please send your name and affiliation.

Opening Session

Convenors: K.Nanba, M.Shevchuk, G. Krzysztoższek

9:00-9:03	0.1	Greetings from Institute of Environmental Radioactivity, Fukushima University, Japan	K.Nanba, <i>IER</i>
9:04-9:07	0.2	Greetings from University of Tsukuba	Y.Onda, <i>UT</i>
9:08-9:11	0.3	Greetings from State Agency of Ukraine of Exclusion Zone Management	M.Shevchuk, <i>SAUEZM</i>
9:12-9:16	0.4	Greetings from National Centre for Nuclear Research	G.Krzysztoższek, <i>NCBJ</i>
9:17-9:20	0.5	Greetings from National Academy of Sciences of Ukraine	A.Nosovsky, <i>ISP NPP NASU</i>
9:20-9:35	0.6	Consequences of the occupation of the Chernobyl Exclusion Zone and the planed steps to continue renovation of the monitoring network and to establish state-of-the art measures to ensure more effective Zone’s management	M.Shevchuk, O.Nasvit, V.Solodka <i>SAUEZM</i>
9:35 - 9:50	0.7	Scientific problems to be solved on the way of transforming the "Shelter" structure of Chernobyl Nuclear Power Plant into an ecologically safe system	A. Nosovsky <i>ISP NPP</i>
9:50-10:05	0.8	Overview of the SATREPS Project "Strengthening of the environmental radiation control and legislative basis in Ukraine for the environmental remediation of radioactively contaminated sites"	K.Nanba, <i>IER</i> Y. Onda, <i>UT</i>
10:05 - 10:20	0.9	Overview of research projects of UK Radiation and the Environment (RATE) programme in Chernobyl Exclusion Zone and surrounding areas during the last decade	<i>J. Smith,</i> <i>Portsmouth</i> <i>University</i>
10:20-10:35	0.10	Risks of nuclear accidents during the invasion of Ukraine by Russian troops	A. Nosovsky <i>ISP NPP,</i> T.Kutuzova, <i>SNRIU</i>

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10:35-10:50		Coffee Break	
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Session 1 : Results of research in modeling and measurements in Chernobyl Exclusion Zone

Convenors: Y.Onda, J.Smith

SUB- PROJECT 1: Cooling Pond and its vicinity			
		<i>Radiochemistry of the Cooling Pond</i>	
10:50-11:05	1.1	Chemical analysis of radionuclide in Chernobyl Cooling Pond	T. Kanasashi, I. M. M. Rahman <i>IER</i> A.Sakaguchi S. Yamasaki <i>UT</i>
11:05-11:20	1.2	⁹⁰ Sr and ¹³⁷ Cs concentration in bottom and dried territories of the former bottom: dynamics during the drawdown	V Protsak, V.Kanivets <i>UHMI</i>
11:20-11:35	1.3	⁹⁰ Sr and ¹³⁷ Cs concentration in water of new water bodies created during the CP drawdown	D.Veremenko, S.Kireev <i>Ecocentre</i>
		<i>Aquatic Radiobiology and Radioecology - CP & nearby water bodies</i>	
11:35-11:50	1.4	⁹⁰ Sr and ¹³⁷ Cs dynamics in the hydrobionts of the Cooling Ponds	D. Gudkov <i>IGB</i> (remotely)
11:50-12:05	1.5	¹³⁷ Cs in fish and predator-prey relationship	T. Kanasashi. T.Wada <i>IER</i>
12:05-12:20	1.6	Model experiments to support field observations on uptake and excretion of ¹³⁷ Cs and ⁹⁰ Sr from the silver Prussian carp (<i>Carassius gibelio</i>)	P. Pavlenko <i>NUBIP UIAR</i>
12:20-12:35	1.7	Clean feed and Prussian Blue application as a countermeasure to reduce the ⁹⁰ Sr and ¹³⁷ Cs levels in fish from contaminated lakes	V. Kashparov <i>NUBIP UIAR</i>
		<i>CP surface water modeling</i>	
12:35-12:50	1.8	Modeling and forecasting of radionuclide dynamics in the CP	R.Bezhenar <i>IMMSP</i> (remotely) M Zheleznyak
		<i>Radiobiology and Radioecology -CP nearby territories</i>	
12:50-13:05	1.9	Radioecological research newly formed Rodents population on the Cooling Pond under the decommissioning	D.Vishnevsky T.Melnychuk K.Korepanova <i>CherReserve</i>
13:05-13:20	1.10	Radiobiological research newly formed Rodents population on the Cooling Pond under the decommissioning	O. Burdo <i>INR</i> H Ishiniwa <i>IER</i> (remotely)
13:20-14:15		Lunch Break	

Convenors: O.Nasvit, V.Kashparov

SUB- PROJECT 1: Cooling Pond and its vicinity			
		<i>CP groundwater fluxes and contamination</i>	
14:15-14:30	1.11	Overview of the results of the research of the CP groundwaters in the pre-drawdown period	D.Bugay

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14:30-14:45	1.12	Establishment of new groundwater monitoring sites and groundwater modeling around the Chernobyl Nuclear Power Plant site	H.Sato, <i>UT</i> S.Kireev, D.Veremenko <i>Ecocentre</i> .M.Gusyev <i>IER</i>
14:45-15:00	1.13	Evaluating radionuclides and groundwater trends change due to cooling pond drainage at the Chernobyl Nuclear Power Plant site	H.Sato, <i>UT</i> M.Gusyev <i>IER</i>
SUB- PROJECT 2: Radionuclides in watersheds, rivers and reservoirs of the area impacted by the Chernobyl accident			
15:00-15:15	1.14	Radionuclide dynamics on the watershed and in the small rivers of ChEZ	Y.Igarashi, H.Wakiyama <i>IER</i> G.Laptev UHMI S Kireev, D.Veremenko <i>Ecocentre</i>
15:15-15:30	1.15	Physical chemical transformations of the radionuclides deposited on the watersheds of ChEZ	G Laptev, V.Protsak <i>UHMI</i> A.Konoplev, <i>IER</i>
15:30-15:45	1.16	Modeling of the radionuclide wash-off from the Pripjat River floodplain upstream ChEZ	S.Kivva, O.Pylypenko, <i>IMMSP</i> M.Zheleznyak <i>IER</i>

Session 2 : Establishment of state-of-the art monitoring capabilities

Convenor: Y.Igarashi

15:45-16:00	2.1	Laboratory and field monitoring studies of the Ecocentre, Chernobyl: pre-war status and development of new facilities	S.Kireev M Kedranovsky <i>Ecocentre,</i>
16:00-16:15	2.2	Monitoring equipment delivered with SATREPS after the deliberation of the Chernobyl Exclusion zone (ChEZ)	O Brazhiy <i>BROM LTD</i>
16:15-16:30	2.3	3D Mapping and Visualization of Radioactive Sources	J.Hecla . K Vetter <i>Dept.</i> <i>Nuclear</i> <i>Engineering</i> <i>Berkley</i> <i>University,USA</i>
16:30-16:45	2.4	Technical assistance project from Sweden/Norway to address the consequences of military activities and occupation of the Chernobyl Exclusion Zone (CEZ) by Russian invading troops in 2022	E.Howell, <i>AFRY</i> <i>Sweden</i>
16:45-17:00	2.5	Review of the Polish network for early detection of radioactive contamination	W. Krysinski <i>NAEA. Poland</i>
17:00-17:15	2.6	The developments in airborne geophysical survey technologies and methodologies their application for assessment of radiological contamination due to military actions.	Y. Zabulonov, B. Burtniak, B. Zlobenko, V. Kovach <i>Institute of</i> <i>Environmental</i> <i>Geochemistry</i> <i>NASU of Ukraine</i>

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Session 4 : Assessment of the environmental losses in ChEZ due to the war

Convenor: M.Zheleznyak

17:15 -17:30	4.1	Methods of evaluation of ecological losses caused by war, including areas affected by radiation, which are being developed in Ukraine under coordination of the Operational Headquarters" (OH)	O.Kryvoruchkina (Coordinator of OH, Ukrainian Parliament member),M Talerko (ISP NPP),
17:30 -17:45	4.2	Potential radiological and chemical impacts on groundwater associated with military actions.	E.Howell, R.Avilla, D.Bugai, AFRY Sweden

17:45- 18:00	Discussion		
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6 October 2022

Session 1 : Results of research in modeling and measurements in Chornobyl Exclusion Zone (continuation)

Convenors: K.Nanba, O.Nasvit

SUB- PROJECT 2: Radionuclide dynamics in forest systems			
9:00- 9:20	1.17	Radiological danger of wildland fires for firefighting in heavily contaminated places in the Chornobyl exclusion zone	V. Kashparov NUBIP UIAR
9:20- 9:35	1.18	Ecological consequences of Russian invasion in forest ecosystems of the Zone	O Borsuk Ch Reserve
9:35- 9:55	1.19	Drone studies of the forest ecosystems in the ChEZ	D Holiaka (remotely), UIAR Y. Onda, UT V. Kashparov UIAR Y. Igarashi IER V.Yoschenko IER (remotely)
9:55- 10:10	1.20	Implementation of remote sensing technologies in the ChEZ	O.Yasinsky, TVIS
SUB- PROJECT 3: Atmospheric dispersion of aerosols			
10:10- 10:30	1.21	Modeling of forest fires in ChEZ by LEDI Model	M,Talerko ISP NPP
10:30- 10:45	1.22	Modeling of forest fires in ChEZ by RODOS system	L Tabachnyi UHMC
10:45- 11:00	1.23	Processing of the satellite monitoring data on the forest fire in ChEZ	Y.Igarashi IER
11:00- 11:15	Coffee Break		

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Session 3 : Development and implementation of the tools to predict and respond to accidents

Convenor: M.Gusyev

11:15-11:35	3.1	Modeling of the consequences of the potential accidents at ZNPP by JRODOS system in KIT, Germany, and coordination with IER and with the Ukrainian Rodos Centers	D.Trybushnyi, <i>KIT</i> L.Tabachnyi, <i>UHMC</i> M.Zheleznyak <i>IER</i>
11:35-11:50	3.2	Modeling of the consequences of the potential accidents at all Ukrainian NPPs by JRODOS system in Center Prediction Consequences of Radiation Accidents in Ukrainian Hydrometeorological Center of SSES	L.Tabachnyi <i>UHMC</i>
11:50-12:10	3.3	Implementation of JRODOS system for the assessment of radiation safety for the planned sites of the location of the designed Polish NPP	S.Potemski <i>NCBJ</i>
12:10-12:30	3.4	GIS- and Modeling-based Assessment of Soil and Groundwater Radioecological Vulnerability in Ukraine	B.Faybishenko, et al. <i>Lawrence Berkeley National Laboratory;</i> M.Zavarin <i>Lawrence Livermore National Laboratory, et al (remotely)</i>
12:30-12:50	3.5	Optimizing Emergency Response Protection Strategies for Nuclear Accidents	V.Korolevych, L. Lebel <i>Canadian Nuclear Laboratories (remotely)</i>
12:50-13:00		Discussion on Session 3 presentations	
13:00-14:00		Lunch Break	

Session 1 : Results of research in modeling and measurements in Chernobyl Exclusion Zone (continuation)

Convenor: M.Zheleznyak

		SUB- PROJECT 4: Strengthening of the ChEZ management	
14:00-14:20	1.24	Experience of the environmental management in the zone impacted by the Fukushima Daiichi accident and its implementation within the SATREPS project for the strengthening of the ChEZ's management	K.Nanba, Y.Igarashi, <i>IER</i> O.Nasvit, <i>SAUEZM</i> T.Kutuzova <i>SNRIU</i>
14:20-14:40	1.25	Legislative support for the radiation safety and ChEZ management by the National Commission Radiation Protection at Ukrainian Parliament	O.Kopylenko, Head <i>NCRP, UP member</i>
14:40-15:00	1.26	Key results of the iClear Project in ChEZ and Narodychi district	J.Smith <i>UP.</i> , G.Laptev <i>UHMI</i>
15:00-15:20	1.27	Zoning of radioactively contaminated territories after the Chernobyl accident	V. Kashparov <i>UIAR</i>

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Seminar Closing Session

15:20- 16:20	FD	Final Discussion <i>Panel speakers- moderators:</i> K.Nanba, Y.Onda, J.Smith, Y. Igarashi, A.Nosovsky S.Kireev, V Protsak, S.Potempski, V.Kashparov, O.Kryvoruchkina, O.Kopylenko, T.Kutuzova, O.Nasvit, M.Zheleznyak, M.Gusyev., D.Vishnevsky, D.Tabachnyi, J.Hecla, E.Howell
16:20 - 16:30		Closing remarks

16:30 -17:30 Informal discussions (all participants)