

Call for Participation

The Committee on Radiation Protection and Public Health (CRPPH)
of the OECD Nuclear Energy Agency
invites you to attend:

The 4th Workshop on Science and Values in Radiological Protection Decision Making

**Moscow
9-11 June 2015**

Co-organised by
State Atomic Energy Corporation “Rosatom” (ROSATOM),
Federal Medical Biological Agency (FMBA) and
State Research Centre – Burnasyan Federal Medical Biophysical Centre (SRC-FMBC)

*Join this international forum for exchange of information and experience
among regulators, scientists and governmental and non-governmental
organisations in radiological protection and public health*

Following the 2008 (Finland), 2009 (France) and 2012 (Japan) **Science and Values workshops**, contributing to the integration of new scientific and technological developments and socio-political considerations into radiological protection, and organised around parallel breakout session discussions, this **June 2015** event will be all held in plenary, including ample time for discussion, and focus more on the “values” aspects of radiological protection decision-making than on the “science” aspects.

Alongside novel scientific and academic phenomena, issues like consent, equity, control and responsibility are also very important for defining and imposing appropriate radiological protection measures and criteria. Taking account of the Fukushima accident experience, these dimensions of *science* and *values* will be addressed by Russian and international delegates through the following three key topics:

< Three Key Topics >

Medical Surveillance



The values aspects of medical surveillance programmes for occupational workers, and in post-accident situations, are seen as important topics being considered by many governments and industries. The presentations and discussions could address such aspects as: the justification and optimisation of medical surveillance programmes; the rational considered when taking such decisions; and considerations taken into account by decisions on the longevity of such surveillance programmes.

Uses of Effective Dose



There is currently much discourse on the uses of effective dose, both by technical experts and for discussing risks with populations in post-accident situations. Discussion of this topic could include such aspects as: the nature of effective dose as a tool for RP experts versus a tool for dialogue with stakeholders; the values aspects of expressing risks; the uses of effective dose as a regulatory tool; the use of collective dose; the use of and uncertainty in individualised dose considerations.

Addressing Safety Concerns



The use of the concept of “safety” is currently being discussed in the context of radiological protection criteria, and of managing public exposures. This is tied to the meaning of “safety”, and to decisions as to ending post-accident protective actions. The values aspects of these issues could be usefully explored, addressing such topics as: the interpretation of technical criteria; use of technical criteria in stakeholder discussions; and processes and approaches to reaching stakeholder agreement on when enough has been done.

Background

The [first Science and Values in Radiological Protection Workshop](#) (hosted by STUK, Finland, 2008) brought stakeholders together to ask "What if?" - IF science develops along postulated lines, then WHAT, if anything, should change in terms of radiological protection? The key topics examined were: *Non-targeted effects; Individual sensitivity; Radiation-induced circulatory diseases*. Dialogue among the attending regulators, scientists and NGOs improved mutual understanding of the choices underlying radiological protection, and began to shape a process and framework for the better integration of its social and scientific dimensions.



The [second Science and Values in Radiological Protection Workshop](#) (hosted by IRSN, MEEDDAT and CEPN, France, 2009) engaged stakeholders in considering "What now?" – examining new data and observations that stimulate us to ask whether current public health and regulatory approaches are still adequate, or whether they may need revision. The key topics examined were: *Domestic exposure to radon; Growing medical exposures in diagnostic and screening procedures; Radiation-induced vascular effects*. Participants reviewed stakeholder experience, rationale and justification for adopting new approaches, practical actions, research needs, and process and framework elements that could enhance radiological protection by better integration of scientific and social aspects.



The [third Science and Values in Radiological Protection Workshop and 6th Asian Regional Conference](#) (hosted by the Nuclear Regulation Authority (NRA), the Ministry of Education, Culture, Sports, Science and Technology (MEXT), and the National Institute of Radiological Sciences (NIRS), Japan, 2012) followed up by asking "Where do we go from here?" Three topics were addressed: *Assessment and management of low-dose exposures and public health; Protection of children and self-help behaviour approaches; and Non-cancer effects*. Participants addressed the values issues of these three topics in great depth, to assist radiological protection to move forward in an accepted and sustainable direction.



Workshop Objectives

To better understand how science and values aspects may influence the evolution of the system of radiological protection, and how science and values aspects should be included and transparently articulated in radiological protection decision-making.

Format of the Workshop

The workshop will be made up of invited papers and discussion, focusing on the three topics listed on page 2, through plenary presentations of science and, mostly, values aspects. Young professionals and Russian experts will feature prominently.

Working language

The workshop will be conducted in English and Russian. Simultaneous translation will be provided for the participants.

Venue

The workshop will be held at the following address: State Research Center – Burnasyan Federal Medical Biophysical Center of Federal Medical Biological Agency (SRC-FMBC), 46 Zhivopisnaya Street, 123182, Moscow, Russia.

The nearest subway station – Shchukinskaya.

Registration

Participation will be limited to approximately 100.

Pre-registration is required via the meeting web-site: <http://www.oecd-nea.org/rp/workshops/science-values-2015/>

Registration Deadline:

- for non-Russian participants – **April 20th, 2015**;

- for Russian participants – **May 30th, 2015**.

There is no registration fee.

The organisers reserve the right to limit attendance if registration exceeds the capacity of the meeting halls. All those interested in attending are encouraged to register. Please feel free to contact the Secretariat, as noted below, if you have further questions.

Visas

Concerning the participants who need a visa for entry to the Russian Federation, we will appreciate if you will make the registration as soon as possible.

Such participants are kindly asked to fill in the Questionnaire (attached) and send it, with a copy of passport, to Mrs Liudmila Karpikova, Head of International Dept., FMBA, karpikova@nic-itep.ru.

Accommodation

Participants from outside of Moscow will stay at the Art Hotel (2, 3-ya Peschanaya ulitsa, 125252 Moscow, <http://www.arthotel.ru/>), where SRC-FMBC has an agreement for reasonable prices. The hotel is close to the Sokol, Airport and Polezhaevskaya subway stations.

Participants, however, are free to book their own accommodation and, in this case, should commute to the workshop venue and back on their own.

Transportation

Participants will be shuttled back and forth between the Art Hotel and the workshop venue by bus organised by SRC-FMBC.

Workshop Secretariat	Organising Committee
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Questionnaire for preparation of visa support
by Federal Medical Biological Agency for entry to Russia

Given Name (as in passport):	
Family Name (as in passport):	
Sex:	
Nationality:	
Country you live:	
Date of birth (dd/mm/yy):	
Place of birth (country, city):	
Passport number:	
Date of issue:	
Date of expiry:	
Full name of organization you work for:	
Work address:	
Work telephone number:	
Work fax number:	
Your email address:	
Your present occupation:	
Date of entering Russia:	
Date of leaving Russia:	
Cities that you are planning to visit	
Country and city where you are going to get your visa at the Russian consulate	

The 4th NEA Workshop on Science and Values in Radiological Protection Decision Making

9-11 June 2015

Co-organised by
State Atomic Energy Corporation “Rosatom” (ROSATOM),
Federal Medical Biological Agency (FMBA) and
State Research Centre – Burnasyan Federal Medical Biophysical Centre (SRC-FMBC)

Venue:
State Research Centre – Burnasyan Federal Medical Biophysical Centre
of Federal Medical Biological Agency (SRC-FMBC)
46 Zhivopisnaya Street, 123182, Moscow, Russia

TENTATIVE AGENDA

Day 1 9th of June	
08:00	Pick up participants from hotel
08:30	Open time of the SRC-FMBC Conference Centre for participants
08:30-09:00	Registration of participants
Workshop Opening Welcome from Workshop Host and Participating Organisations	
09:00	Welcome from Wolfgang Weiss Committee for Radiation Protection and Public Health (CRPPH)
09:05	Welcome from Victor Nazarov Federal Medical Biological Agency (FMBA), Russia
09:10	Welcome from Evgeniy Gloukhikh State Atomic Energy Corporation “Rosatom” (ROSATOM), Russia
09:15	Welcome from Aleksandr Samojlov State Research Centre – Burnasyan Federal Medical Biophysical Centre (SRC-FMBC), Russia
09:20	Welcome from Zhanat Carr World Health Organization (WHO)
Workshop Description	
09:25	Presentation on the NEA Organisation and Activities Kazuo Shimomura (OECD Nuclear Energy Agency) (NEA)
09:40	S&V Workshop: Structure and Agenda Edward Lazo (NEA)

	Plenary Session 1: Radiological Protection Issues and Research in the Russian Federation	
	<i>Chairs:</i> Edward Lazo (NEA) and Victor Nazarov (FMBA)	
<i>Overview of Radiological Protection Issues and Research in the Russian Federation</i>		
10:00	Paper 1.	Radiological protection and health of nuclear professionals and the public living in the vicinity of radiation hazardous facilities in Russia <i>Speaker:</i> Nataliya Shandala (SRC-FMBC)
10:20	Paper 2.	Ensuring safety during NPP decommissioning <i>Speaker:</i> Boris Shevchenko, Concern “Rosenergoatom”, Russia
10:40	Paper 3.	Supervision and assessment of radiation situation during environmental remediation of former submarine technical shore bases in Northwest Russia: Regulatory cooperation between FMBA and NRPA <i>Speaker:</i> Malgorzata Sneve (Norwegian Radiation Protection Authority, NRPA, Norway)
11:00	COFFEE BREAK	
<i>Overview of Radiological Protection Issues and Research in the Russian Federation (cont.)</i>		
11:30	Paper 4.	Epidemiological studies: Epidemiological register of acute radiation injuries of citizens of the former USSR and Russia <i>Speaker:</i> Andrey Bushmanov (SRC-FMBC)
11:50	Paper 5.	Epidemiological studies of later health effects for workers at the Mayak Enterprise <i>Speaker:</i> Sergey Romanov (South Ural Biophysics Institute, SUBI, Ozersk, Russia)
12:10	Paper 6.	Epidemiological studies of occupational diseases (on the basis of the Russian nuclear workers register) <i>Speaker:</i> Aleksandr Biryukov (SRC-FMBC)
12:30	Paper 7.	Regional medical-dosimetric register of the Siberian Chemical Combine personnel: structure, data characteristics, history and problems <i>Speaker:</i> Ravil Takhauov (Seversk Biophysical Research Center, Russia)
13:00	LUNCH	

Plenary Session 2: Medical Surveillance	
<i>Chairs: Zhanat Carr (WHO) and Andrey Bushmanov (SRC-FMBC)</i>	
<i>Worker Surveillance Programmes</i>	
14:30	<p>Paper 8. Health surveillance for workers occupationally exposed to radiation: Ethical and technical guiding principles</p> <p style="text-align: center;"><i>Speaker: Shengli Niu (International Labour Office, ILO)</i></p> <p><i>This paper will discuss the labour considerations that are important when making decisions regarding the need for, and if necessary the extent of medical surveillance</i></p>
14:50	<p>Paper 9. Practical application of worker surveillance in France</p> <p style="text-align: center;"><i>Speaker: Bernard le Guen (Électricité de France, EDF, France)</i></p> <p><i>This paper will describe the nuclear worker surveillance programme used by EDF in France, and the considerations that drive its structure and use</i></p>
15:10	<p>Paper 10. Costs and psychological effects of worker surveillance</p> <p style="text-align: center;"><i>Speaker: Igor Semin (Siberian Chemical Combine, SCC, Seversk, Russia)</i></p> <p><i>This paper will describe the structure of the worker health surveillance programme, and the social and psychological considerations that contribute to the programme's design</i></p>
15:30	COFFEE BREAK
<i>Post-Accident Surveillance of Affected Populations</i>	
16:00	<p>Paper 11. Overview of issues and challenges: Post-accident medical surveillance of exposed populations</p> <p style="text-align: center;"><i>Speakers: Zhanat Carr (WHO) and Evgenia Ostroumova (International Agency for Research on Cancer, IARC)</i></p> <p><i>This paper will discuss the health and social considerations when making decisions regarding the need for and, if necessary, the extent of medical surveillance, as well as the implications of epidemiological follow-up findings for public health</i></p>
16:30	<p>Paper 12. Epidemiological studies of later health effects for the public exposed in the Southern Urals</p> <p style="text-align: center;"><i>Speaker: Liudmila Krestinina (Urals Research Centre for Radiation Medicine, Chelyabinsk, Russia)</i></p> <p><i>This paper will present late health effects for population exposed in the Techa riverside villages and for residents of the East Urals radioactive trace, based on cancer incidence and mortality</i></p>

16:50	<p>Paper 13. National radiation and epidemiological registry (NRER) – a state system for monitoring health status of the Russian radiation-exposed population and prognosis of health effects of radiological accidents</p> <p><i>Speaker:</i> Marat Maksioutov (A. Tsyb Medical Radiological Research Centre – Branch of the National Medical Research Radiological Centre of the Ministry of Health of the Russian Federation, MRRC, Obninsk, Russia)</p> <p><i>This paper will describe the health surveillance program that was put in place in the Russian Federation following the Chernobyl accident, and the key drivers for its structure and duration</i></p>
17:10	<p>Paper 14. National radiation epidemiological register of the public and liquidators of the accident at the Chernobyl NPP in Belarus</p> <p><i>Speaker:</i> Aliaksandr Razhko (Republican Research Centre for Radiation Medicine and Human Ecology, Gomel, Belarus)</p> <p><i>This paper will describe the health surveillance program in Belarus after the Chernobyl accident, and key drivers for its structure and duration</i></p>
17:30	<p>Discussion</p> <p><i>Moderators:</i> Ingemar Lund (Swedish Radiation Safety Authority, SSM, Sweden) and Marat Maksioutov (MRRC)</p> <p><i>This discussion will focus on identifying the key social and values aspects that drive decisions regarding the structure and duration of worker and post-accident population medical surveillance programs</i></p>
18:00	End of 1st Day
20:00	Reception / boat trip on the Moscva River (by invitations)

Day 2 10th of June	
08:45	Pick up participants from hotel
	<p>Plenary Session 3: Uses of Effective Dose: Uncertainty and Variability from Environmental Exposures</p> <p><i>Chairs:</i> Hans-Georg Menzel (International Commission on Radiological Protection, ICRP) and Sergey Shinkarev (SRC-FMBC)</p>
09:30	<p>Paper 15. Uses of effective dose: Overview of issues and challenges</p> <p style="text-align: center;"><i>Speaker:</i> Hans-Georg Menzel (ICRP)</p> <p><i>This paper will discuss the science behind the radiation protection quantity effective dose, underlying approximations and assumptions and its role for the implementation of the radiation protection principles of limitation and optimization. It will also discuss the limits of effective dose for individual risk assessments.</i></p>
09:50	<p>Paper 16. Individual aspects of organ dose</p> <p style="text-align: center;"><i>Speaker:</i> Edward Lazo (NEA)</p> <p><i>This paper will discuss approaches that can be used to begin to better understand how exposures may vary from individual to individual, and the limits and uncertainties of our current knowledge</i></p>
10:10	<p>Paper 17. Concerns of individuals living in contaminated territories</p> <p style="text-align: center;"><i>Speaker:</i> Ryu Hayano (Tokyo University, Japan)</p> <p><i>This paper will discuss the radiological concerns expressed during whole body scans by individuals living in the areas affected by the Fukushima accident</i></p>
10:30	<p>Paper 18. Highlights of the Russian Health Studies Program and updated research findings</p> <p style="text-align: center;"><i>Speaker:</i> Barrett Fountos (Department of Energy, DOE, USA)</p> <p><i>This presentation will discuss the purpose and objectives of the Program, including background, history, and scientific oversight, current results from ongoing research, research interrelationships and interdependencies among sponsoring organizations, and future activities</i></p>
10:50	COFFEE BREAK
11:20	<p>Paper 19. How to individualise risks? The need for advanced R&D and communication concepts</p> <p style="text-align: center;"><i>Speaker:</i> Wolfgang Weiss (CRPPH)</p> <p><i>This talk will discuss a radiological protection view on the type of individual risk information that could be useful, and if possible research directions that could lead to such developments</i></p>

11:40	<p>Discussion</p> <p><i>Moderators: Wolfgang Weiss (CRPPH) and Sergey Romanov (SUBI)</i></p> <p><i>This discussion will focus on identifying the value of pursuing further research and development of individual aspects of dose and risk, and how communications of such concepts should be handled</i></p>
12:00	LUNCH
	<p>Plenary Session 4: Addressing Safety Concerns</p> <p><i>Chairs: Michiaki Kai (Oita University of Nursing and Health Sciences, Japan) and Aleksandr Panfilov (ROSATOM)</i></p>
13:30	<p>Paper 20. Addressing safety concerns: Overview of regulatory issues and challenges</p> <p><i>Speaker: Ingemar Lund (SSM)</i></p> <p><i>This paper will discuss the word “Safe”, the problematic aspects of how it is commonly used in the context of radiological exposure, and regulatory attempts to frame this concept</i></p>
13:50	<p>Paper 21. Optimization as a key component for system of radiological protection</p> <p><i>Speaker: Trevor Boal (IAEA)</i></p> <p><i>The paper will address issues related to implementing the principle of optimization of protection and safety, applying appropriate dose constraints in planned exposure situations and reference levels in existing exposure situations, and issues in optimization of protection below the dose constraints and reference levels</i></p>
14:10	<p>Paper 22. Accepted and sustainable RP decisions in the nuclear industry: NPP Operator approach in the Russian Federation</p> <p><i>Speaker: Igor Dolzhenkov, Concern “Rosenergoatom”</i></p> <p><i>This paper will discuss the aspects that are taken into account in Russian nuclear power plants when deciding that radiological protection has been “optimised” for worker and public protection</i></p>
14:30	COFFEE BREAK
15:00	<p>Paper 23. Decisions in the nuclear industry: Approach in the USA to determine if radiological protection has been “optimised”</p> <p><i>Speaker: Willie Harris (Exelon Nuclear, USA)</i></p> <p><i>This paper will discuss the aspects that are taken into account in the USA when deciding that radiological protection has been “optimised” for worker and public protection</i></p>

15:20	<p>Paper 24. Overview of the United States Department of Energy Worker Health Studies</p> <p><i>Speaker: Patricia Worthington (U.S. DOE)</i></p> <p><i>This paper will describe the United States Department of Energy (DOE) worker health study program that was put in place to determine if DOE workers and people living in communities near DOE sites are adversely affected by exposures to hazardous materials from DOE operation. The information is used to protect and promote the health of DOE workers, their families and residents of neighbouring communities, shared with the public, and provided to national and international authorities that recommend standards for exposure to ionizing radiation.</i></p>
15:40	<p>Paper 25. Accepted and sustainable RP decisions in the nuclear industry: Regulatory approach</p> <p><i>Speaker: Vladimir Romanov (FMBA)</i></p> <p><i>This paper will discuss the aspects that are taken into account in the Russian Federation when the regulatory authority agrees that radiological protection decisions by the operator have been “optimised” for worker and public protection</i></p>
16:00	<p>Discussion</p> <p><i>Moderators: Trevor Boal (IAEA) and Sergey Mikheenko (ROSATOM)</i></p> <p><i>This discussion will focus on how the concept of “safe” is understood, and how it should be expressed</i></p>
16:30	<p>End of 2nd Day</p>
	<p>Visit to Kremlin (only for foreign participants)</p>

Day 3 11th of June	
08:45	Pick up participants from hotel
	<p>Plenary Session 5: Facilitated Discussion</p> <p><i>Chairs:</i> Patricia Worthington (U.S. DoE) and Ravil Takhauov (Seversk Biophysical Research Center, Russia)</p> <p><i>During this session the Moderators will briefly give PowerPoint presentations of their views of the results of their session, and discussion will focus on refining those views to obtain the broadest consensus possible</i></p>
09:30	<p>Facilitated Discussion of Session 2</p> <p><i>Moderators:</i> Ingemar Lund (SSM) and Marat Maksiouov (MRRC)</p>
10:30	COFFEE BREAK
10:50	<p>Facilitated Discussion of Session 3</p> <p><i>Moderators:</i> Wolfgang Weiss (CRPPH) and Sergey Romanov (SUBI)</p>
11:50	COFFEE BREAK
12:10	<p>Facilitated Discussion of Session 4</p> <p><i>Moderators:</i> Trevor Boal (IAEA) and Sergey Mikheenko (ROSATOM)</p>
13:10	<p>Closing remarks</p> <p><i>Chair:</i> Kazuo Shimomura (NEA)</p>
13:20	End of Workshop
13:30	LUNCH
14:30	<p>Technical Tour Visit to the Museum of the Kurchatov Institute</p>
16:30	End of Technical Tour

Workshop Secretariat

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