OECD Nuclear Energy Agency
Committee on Radiation Protection and Public Health

The 5th Asian Regional Conference on
the Evolution of the System of Radiological Protection

National Institute of Radiological Sciences, Chiba, Japan
3 –4 September 2009

Organised by the OECD Nuclear Energy Agency
in collaboration with
the International Commission on Radiological Protection (ICRP)

Co-organised by the Nuclear Safety Commission (NSC) of Japan
and
the Ministry of Education, Culture, Sports, Science and Technology
(MEXT) of Japan

Co-sponsored by the National Institute of Radiological Sciences (NIRS)
of Japan

Programme

Conference web site:
http://www.nea.fr/html/rp/chiba
The 5th Asian Regional Conference on
the Evolution of the System of Radiological Protection

An OECD Nuclear Energy Agency Conference organised by the
Committee on Radiation Protection and Public Health

- In collaboration with the International Commission on
  Radiological Protection (ICRP)
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  (NIRS) of Japan

The Committee on Radiation Protection and Public Health (CRPPH) of the OECD Nuclear Energy Agency (NEA) has actively supported the open process initiated by the International Commission on Radiological Protection (ICRP) to revise its Recommendations. In this process, the NEA member countries in the Asian and Pacific area have played an important role. The specific views of these members were addressed through four Asian Regional Conferences on the Evolution of the System of Radiological Protection, held in Tokyo in October 2002, July 2004, July 2006 and December 2007. The results of these conferences were provided directly to the ICRP for consideration. With input from such stakeholder dialogue, the ICRP published the new ICRP recommendations in December 2007. The publication of these recommendations and the success of the previous Tokyo conferences have led the CRPPH to organise a fifth Asian Regional Conference to discuss the implementation of the 2007 ICRP recommendations, and to provide a dedicated forum for Asian views. The results of this conference will provide useful and practical approaches and experience
for implementing the 2007 ICRP recommendations for NEA member countries in the Asian and Pacific area.

Specifically, the objectives of this conference are to:

- Evaluate and discuss the possible implications of the 2007 ICRP recommendations, particularly with the respect to Asian expectations and possible future application in the Asian contexts;
- Identify the future and medium to long term issues relating to radiation protection, taking into account the social and cultural background of the various countries in Asia, based on the results of recent CRPPH activities (EGIR);
- Exchange experience and views at the national and international levels on the implementation of the 2007 ICRP recommendations, and discuss the understanding of some important specific issues for the implementation;
- Contribute to the evolution of the new system of radiation protection.

Background

ICRP Recommendations

The ICRP launched an open process to enhance its radiological protection recommendations. The ICRP presented new draft proposals and recommendations to the broad radiological protection community seeking a dialogue with all interested parties or stakeholders. The objective of this open process was to arrive at a new generation of ICRP recommendations that are as broadly understood and accepted as possible so they could be efficiently implemented. The ICRP’s new general recommendations, Publication 103, were put through such an open process.
The ICRP developed its new general recommendations to replace ICRP Publication 60. As part of this process, the ICRP had also identified a need to clarify and update its views on the radiological protection of the environment. Both of these areas are of great interest to the member countries of the Nuclear Energy Agency (NEA).

**NEA/ICRP dialogue**

As an international committee made up of nationally nominated radiation protection authorities and technical experts, the NEA Committee on Radiation Protection and Public Health (CRPPH) has for most of its history actively followed the work of the ICRP. This interest continues as the ICRP develops its new recommendations. Shortly after the ICRP began to develop its new ideas based on Roger Clarke’s article on the controllable dose concept (*J. Radiol. Prot.* 19 No 2, June 1999), the CRPPH also began specific work on this issue, focusing on how the system of radiological protection could be made more responsive to decision makers, regulators, practitioners and the public. Through a series of expert groups, topical sessions and broad stakeholder dialogue fora, the CRPPH has developed and published reports specifically addressing development of a new system, all of which are available from the NEA’s website (www.nea.fr).

With the completion of the 2007 ICRP recommendations, the CRPPH has continued to provide its views on other ICRP draft recommendations through the Expert Group on the Implications of ICRP Recommendations (EGIR). For example, the EGIR will assess a draft ICRP statement regarding the management of exposures from residential and workplace radon, and further draft statements on the radiological protection of the environment as they become available.

In addition to this EGIR work on draft ICRP recommendations, the EGIR has also addressed several draft versions of the International Basic Safety Standards (BSS), which are now in the process of being updated. In 2008 the CRPPH organised a review of draft Revision 1.0 of the BSS through the EGIR, and in September 2009 the EGIR reviewed Revision 2.0. This included a line-by-line, word-by-word
review of the text, with suggestions for specific changes each accompanied by the rationale for the change. The EGIR will continue to review and assess future BSS drafts as they become available.

It is in this context that the fifth Asian Regional Conference on the Evolution of the System of Radiological Protection will be held. The conference will provide important inputs to the implementation of the 2007 ICRP Recommendations in NEA member countries in the Asian and Pacific area. In addition, the CRPPH can validate its recent work regarding the CRPPH assessment of its input to the 2007 ICRP recommendations.

### Timing and location

The Conference will be held at the **National Institute of Radiological Sciences, Chiba, Japan, 3 and 4 September 2009**, starting at 9:30 on 3 September.

### Participation and registration

Participation in the Conference will be about 110 invitees, including radiation protection professionals, regulators, industry and scientists. Participation is free of charge; however invitees are required to register for the conference by visiting the following webpage:

http://www.nea.fr/html/rp/chiba

This page will also be used to post associated documents for the conference, as well as practical information such as hotel lists and directions to the conference venue.
Conference organisation

This Conference will be organised by the NEA, Committee on Radiation Protection and Public Health (CRPPH), in collaboration with the International Commission on Radiological Protection (ICRP), and co-organised by the Nuclear Safety Commission (NSC) of Japan, and the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan, and co-sponsored by the National Institute of Radiological Sciences (NIRS) of Japan.

Working language

The working language of the conference will be English with simultaneous interpretation between English and Japanese.

Arrangements for speakers and chairs

Presentations at this conference are by invitation only. Speakers are asked to send their papers and PowerPoint presentations, to the NEA Secretariat (see address below) in advance of the conference by 20 August 2009. In addition, speakers should submit a half-page curriculum vitae which will be given to the chair of each session in advance of the conference. The chair will make introductory remarks on the basis of this curriculum vitae.

The chairs will be asked to briefly summarise each session following these presentations.
Proceedings

Proceedings will be published by the NEA in due course after the conference.

Programme Committee

COUSINS Claire (ICRP Chair)
INOUE Yuji (MEXT, Japan)
McGARRY Ann (CRPPH Chair)
SAKAI Kazuo (NIRS, Japan)
YAMADA Tomohi (NSC, Japan)
YAMAGUCHI Yasuhiro (CRPPH Bureau, JAEA)

Local arrangements

The meeting will be held at the National Institute of Radiological Sciences
4-9-1 Anagawa, Inage-ku, Chiba-shi, Chiba 263-8555, Japan
Tel: +81-43-251-2111
http://www.nirs.go.jp/ENG/index.html

How to travel to National Institute of Radiological Sciences
<By train from Tokyo or Narita International Airport>
• Take the JR Sobu line, either rapid or local, to Inage station. Go out through the east exit (on your left as you come out of the main ticket gate), walk straight ahead and turn right at the second traffic light. Follow that road all the way to the NIRS main gate at the top of the hill on the left (10 minutes), or take the Keisei bus for Sanno-cho from stop No. 2 at the rotary outside the east exit of JR Inage station and get off at Hoiken mae/NIRS main gate, the first stop.
<By car from Narita International Airport>

- Take Higashi-Kanto Expressway to Chiba-kita IC (exit 6), get on Rt. 16 towards Chiba/Yotsukaido and then follow the signs of Kisarazu/Ichihara to go towards Anagawa. Instead of Chiba-kita IC, you may go further to Keiyo Highway Junction (exit 7, about 2.5 km from Chiba-kita IC) to take Keiyo Highway for Kisarazu/Ichihara, get off at Anagawa IC and drive on Rt. 16 towards Kisarazu/Ichihara. Go straight on this road through four traffic lights as it becomes Bunkyo-dori and you will pass the Inage Ward Office on the right-hand side. There is a traffic light at the entrance to the Ward Office. After two more traffic lights you will have Keiai University on your left. Turn right at this light, and the NIRS main gate is about 150m on the right side.

The meeting location (NIRS) is shown on the following map.

**Accommodation**

Detailed information on accommodation will be sent to registered participants in due course by the NEA Secretariat. Participants are asked to make their own arrangements.
**Secretariat**

The NEA will provide the Scientific Secretariat and the NSRA will provide the Local Secretariat for the conference.

Please contact:

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<tr>
<th>Name</th>
<th>Address</th>
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<tbody>
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Day 1 - Thursday 3 September 2009

Welcome and conference opening

09:30 Welcome Address

Dr. Shizuyo KUSUMI
Commissioner of NSC, Japan

Mr. Itaru WATANABE
Senior Deputy Director-General, Science and Technology Policy Bureau, MEXT, Japan

Dr. Yoshiharu YONEKURA
President, National Institute of Radiological Sciences, Japan

Ms. Janice DUNN-LEE
Deputy Director-General
OECD Nuclear Energy Agency

SESSION 1: New ICRP recommendations

Chair: Dr. Otsura NIWA
Co-Chair: Dr. Seong Ho NA

09:50 Speaker: Dr. John COOPER
International Commission on Radiological Protection (ICRP)
SESSION 2: Impact of the new system
~Focusing on the optimization process using dose constraints

A. International Standards
Chair: Dr. Yoshiharu YONEKURA
Co-Chair: Prof. Zi Qiang PAN

11:00 The Situation of the Revision Work for the International Basic Safety Standards
Speaker: Dr. Trevor J. Boal
International Atomic Energy Agency (IAEA)

11:20 Discussion
12:00 LUNCH

SESSION 2: Impact of the new system
~Focusing on the optimization process using dose constraints

B. National Development and Regulation
Chair: Mr. Sigurdur M. Magnusson
Co-Chair: Dr. Toshiso KOSAKO

14:00 The situation in Japan
Speaker: Dr. Takashi NAKAMURA
Chair, Radiation Council, Japan

14:20 The situation in the United States
Speaker: Dr. Kimyata MORGAN-BUTLER
United States Nuclear Regulatory Commission (NRC)
14:40 The situation in Korea

   *Speaker:* **Dr. Seong Ho NA**  
   Korea Institute of Nuclear Safety (KINS)

15:00 Discussion

15:30 BREAK

16:00 The situation in Australia

   *Speaker:* **Dr. Peter BURNS**  
   Acting CEO, Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)

16:20 The situation in China

   *Speaker:* **Prof. Zi Qiang PAN**  
   Science and Technology Commission,  
   China Atomic Energy Authority (CAEA)

16:40 The situation in Russia

   *Speaker:* **Dr. Nataliya SHANDALA**  
   Deputy Director General,  
   Burnasyan Federal Medical Biophysical Centre,  
   Federal Medical Biological Agency (FMBA)

17:00 Discussion

17:30 End of DAY 1

18:00 Reception
Day 2 – Friday 4 September 2009

SESSION 3: Securing and Fostering of Younger Experts Responsible for Radiation Protection

*Chair:* Dr. Yoshihisa MATSUMOTO  
*Co-Chair:* Dr. Kazuo SAKAI

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Organization</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Views from the young radiation protection engineers in Japan</td>
<td>Mr. Kotaro YAMASOTO</td>
<td>Young Researcher’s Association of JHPS</td>
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<tr>
<td>09:50</td>
<td>Views from the young academic researchers in Japan</td>
<td>Dr. Tatsuhiko IMAOKA</td>
<td>Young Radiation Biologists’ Association</td>
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<td>10:10</td>
<td>Views from the Foreign Students from Asia in Japan</td>
<td>Mr. Le Ngoc THIEM</td>
<td>Foreign Students from Asia in Japan (concerned Radiation Protection)</td>
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<td>10:30</td>
<td>BREAK</td>
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<td>10:50</td>
<td>Discussion</td>
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*Chair:* Dr. Peter BURNS  
*Co-Chair:* Dr. Michiaki KAI

~Focusing on the optimization process using dose constraints~
11:20 Views from the JHPS

Speaker: Dr. Takatoshi HATTORI
Japan Health Physics Society (JHPS)

11:40 Views from the FEPC

Speaker: Mr. Sakae MUTO
The Federation of Electric Power Companies of Japan (FEPC)

12:00 LUNCH

SESSION 5: Evolution of the System of Radiological Protection; Challenges and Opportunities for the Future from the Asian Perspective

~Focusing on the optimization process using dose constraints


Moderator: Dr. Hans RIOTTE (NEA)

Panel members:
- Dr. Kimyata MORGAN-BUTLER (NRC, USA)
- Dr. Seong Ho NA (KINS, Korea)
- Dr. Peter BURNS (ARPANSA, Australia)
- Prof. Zi Qiang PAN (CAEA, China)
- Dr. Nataliya SHANDALA (FMBA, Russia)
- Dr. Yuji INOUE (MEXT, Japan)
- Mr. Tomoho YAMADA (NSC, Japan)
- Mr. Kotaro YAMASOTO (Young Researcher’s Association of JHPS, Japan)

SESSION 6: SYNTHESIS OF THE MEETING

15:00 An Asian Perspective

Dr. Yasuhiro YAMAGUCHI
JAEA, and CRPPH Bureau
15:15 Feed back of ICRP Developments

Dr. John COOPER
ICRP

15:30 The CRPPH Perspective

Mr. Sigurdur MAGNUSSON
CRPPH Bureau

15:45 Meeting Closing

Ms. Janice DUNN-LEE
Deputy Director-General
OECD Nuclear Energy Agency