

Monday October 24, 2011

- 9:00-10:00** **Opening Plenary**
- 10:30-13:00** **ICRP Programme of Work**
- 14:15 - 17:30** **The System of Radiological Protection – Is it Fit for Purpose?**

Tuesday October 25, 2011

- 8:30-10:10** **Tissue Reactions: Low Dose Risks**
Applications of Effective Dose
- 10:40-12:20** **Radiation Effects: Modulating Factors and Risk Assessment**
Radiation Protection in Space
- 13:50 - 15:30** **The Scientific Basis for Reference Animals and Plants**
Radiological Protection in Computed Tomography
- 16:00 - 17:40** **Environmental Protection in Practice**
Prevention of Accidents in Radiation Therapy

Wednesday October 26, 2011

- 8:30-10:10** **Dose Constraints and Reference Levels**
- 10:40-12:20** **Radiological Protection in NORM**
Radiological Protection in Waste Management
- 13:50 - 15:30** **Experience in Implementing ICRP Recommendations**
Protection against Radon in Workplaces
- 16:00 - 17:40** **Symposium Summary and Conclusions**

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| <p>Mon Oct 24 09:00 to 10:00</p> | <p>Opening Plenary <i>Chair: Claire Cousins, ICRP Chair</i></p> <p>Welcome from the International Commission on Radiological Protection Claire Cousins, ICRP Chair & Addenbrooke's Hospital, UK</p> <p>Welcome from the Nuclear Regulatory Commission Gregory Jaczko, Chairman, Nuclear Regulatory Commission, USA</p> <p>Welcome from the Environmental Protection Agency Environmental Protection Agency, USA</p> <p>ICRP Strategic Plan Claire Cousins, ICRP Chair & Addenbrooke's Hospital, UK</p> <p>National Council on Radiation Protection and Measurements (NCRP) Scientific Program and Collaboration with ICRP Thomas Tenforde, President, National Council on Radiation Protection and Measurement, USA</p> |
| <p>Mon Oct 24 10:30 to 13:00</p> | <p>ICRP Programme of Work <i>Chair: Christopher Clement, ICRP Scientific Secretary</i></p> <p>Radiation Effects Julian Preston, ICRP MC and C1 Chair & Environmental Protection Agency, USA</p> <p>Doses from Radiation Exposure Hans Menzel, ICRP MC and C2 Chair, Switzerland</p> <p>Radiological Protection in Medicine Eliseo Vafió, ICRP MC and C3 Chair & Complutense University, Spain</p> <p>Application of the Commission's Recommendations Jacques Lochard, ICRP MC and C4 Chair & Centre d'étude sur l'Evaluation de la Protection dans le Domaine Nucléaire, France</p> <p>Radiological Protection of the Environment Jan Pentreath, ICRP MC and C5 Chair, UK</p> |

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| Mon Oct 24 14:15 to 17:30 | The System of Radiological Protection – Is it Fit for Purpose? <i>Chair: Abel González, ICRP Vice-chair</i> |
| | UNSCEAR: The Basic Scientific Platform for the Work of ICRP Malcolm Crick, United Nations Scientific Committee on the Effects of Atomic Radiation |
| | The ICRP System of Radiation Protection: The Medical and Public Health Perspective Maria Neira, Public Health and Environment Director, World Health Organisation Emilie van Deventer, World Health Organisation |
| | The System of Radiological Protection: Is it Fit for Purpose? Jacques Repussard, Director, Institut de Radioprotection et de Sûreté Nucléaire, France |
| | Radiation Protection Issues on Preparedness and Response for a Severe Nuclear Accident: Experiences of the Fukushima Accident Toshimitsu Homma, ICRP C4 & Japan Atomic Energy Agency |
| | The System Of Radiological Protection- Is it Fit For Purpose? Willie Harris, Exelon Nuclear & WNA RP Working Group Chair, USA |
| | A Regulatory Perspective Michael Boyd, Environmental Protection Agency, USA |
| Panel Discussion | |

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| <p>Tues Oct 25</p> <p>08:30 to 10:10</p> | <p>Tissue Reactions: Low Dose Risks <i>Chair: Julian Preston, ICRP MC and C1 Chair</i></p> <p>Epidemiology Mark Little, National Cancer Institute, USA</p> <p>Radiobiology Jolyon Hendry, ICRP C1, UK</p> <p>Cardiovascular Disease Fiona Stewart, ICRP C1 & Netherlands Cancer Institute</p> <p>Cataracts Norman Kleiman, Columbia University, USA</p> | <p>Applications of Effective Dose <i>Chair: John Harrison, ICRP C2</i></p> <p>Effective Dose: A Radiation Protection Quantity Hans Menzel, ICRP MC and C2 Chair, Switzerland</p> <p>Effective Dose: A Flawed Concept that Could and Should be Replaced David J. Brenner, Columbia University Medical Center, USA</p> <p>Effective Dose and Risks from Medical X-ray Procedures Mikhail Balonov, ICRP C2 & Institute of Radiation Hygiene, Russia</p> |
| <p>Tues Oct 25</p> <p>10:40 to 12:20</p> | <p>Radiation Effects: Modulating Factors and Risk Assessment <i>Chair: John Boice, ICRP MC</i></p> <p>Overview Richard Wakeford, ICRP C1 & University of Manchester, UK</p> <p>Epidemiology Sarah Darby, ICRP C1 & University of Oxford, UK</p> <p>Models Suresh Moolgavkar, University of Washington, USA</p> <p>Epidemiology & Radiation Biology Alice Sigurdson, ICRP C1 & National Cancer Institute, USA</p> | <p>Radiation Protection in Space <i>Chair: Hans Menzel, ICRP MC and C2 Chair</i></p> <p>Uncertainty Analysis in Space Radiation Protection Frank Cucinotta, National Aeronautics and Space Administration, USA</p> <p>Radiation Transport Calculations for Cosmic Radiation Akira Endo, ICRP C2 & Japan Atomic Energy Agency</p> <p>Assessment of Radiation Exposure of Astronauts in Space Günther Dietze, ICRP C2, Germany</p> |

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| <p>Tues Oct 25</p> <p>13:50 to 15:30</p> | <p>The Scientific Basis for Reference Animals and Plants <i>Chair: Jan Pentreath, ICRP MC and C5 Chair</i></p> <p>The Biological Basis for Protection of the Environment Carl-Magnus Larsson, ICRP C5 & Australian Radiation Protection and Nuclear Safety Agency</p> <p>Dosimetry for Reference Animals and Plants: Current State and Prospects Alexander Ulanovsky, ICRP C5 & Helmholtz Zentrum München, Germany</p> <p>Radiation Weighting Factors in the Context of Animals and Plants Kathryn Higley, ICRP C5 & Oregon State University, USA</p> | <p>Radiological Protection in Computed Tomography <i>Chair: Eliseo Vañó, ICRP MC and C3 Chair</i></p> <p>CT Scanning: The Good, the Bad and the Ugly Fred Mettler, ICRP MC Emeritus, New Mexico Federal Regional Medical Center, USA</p> <p>ICRP and IAEA Actions on Radiation Protection in CT Madan Rehani, ICRP C3 & International Atomic Energy Agency</p> <p>Minimising Medically Unwarranted CT Scans David J. Brenner, Columbia University Medical Center, USA</p> <p>Paediatric CT Pek-Lan Khong, ICRP C3 & University of Hong Kong, China</p> |
| <p>Tues Oct 25</p> <p>16:00 to 17:40</p> | <p>Environmental Protection in Practice <i>Chair: Carl-Magnus Larsson, ICRP C5</i></p> <p>Clarifying and Simplifying the Management of Environmental Exposures under Different Exposure Situations Jan Pentreath, ICRP MC and C5 Chair, UK</p> <p>Regulatory Experience in Applying a Radiological Environmental Protection Framework for Existing and Planned Nuclear Facilities Steve Mihok, Canadian Nuclear Safety Commission</p> <p>Application of Radiological Protection Measures to Meet Different Environmental Protection Criteria David Coplestone, ICRP C5 & University of Stirling, UK</p> | <p>Prevention of Accidents in Radiation Therapy <i>Chair: Madan Rehani, ICRP C3</i></p> <p>Accident Prevention in Day-to-day Clinical Radiation Therapy Practice Mario Baeza, ICRP C3 & Instituto de Radiomedicina, Chile</p> <p>Impact of Complexity and Computer Control on Errors in Radiation Therapy Benedick Fraass, Cedars-Sinai Medical Center, Los Angeles, USA</p> <p>Prioritization of Quality Management Activities Based on What is Reasonably Achievable and Optimally Beneficial to Patients M. Saiful Huq, University of Pittsburgh Cancer Institute and Medical Center, USA</p> <p>Tools for Risk Assessment in Radiation Therapy Pedro Ortiz Lopez, ICRP C3 & International Atomic Energy Agency</p> |

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| <p>Wed Oct 26 08:30 to 10:10</p> | <p>Dose Constraints and Reference Levels <i>Chair: Jacques Lochard, ICRP MC and C4 Chair</i></p> <p>Dose Constraints in Occupational Radiation Protection - Regulations and Practices Anne McGarry, ICRP C4 & CRPPH Chair & Radiological Protection Institute of Ireland</p> <p>Global Nuclear Industry Views: Challenges Arising from the Evolution of the Optimization Principle in Radiological Protection Sylvain St-Pierre, World Nuclear Association</p> <p>Survey on the Use of Dose Constraints and Reference Levels Made in the Context of the European ALARA Network Stephen Fennell, Radiological Protection Institute of Ireland</p> <p>Reference Levels in the Context of Fukushima Kazuo Sakai, ICRP C5 & National Institute of Radiological Sciences, Japan</p> | |
| <p>Wed Oct 26 10:40 to 12:20</p> | <p>Radiological Protection in NORM <i>Chair: Peter Burns, ICRP C4</i></p> <p>Development of a NORM Management Strategy for the Oil & Gas Industry Michael Cowie, Saudi Aramco, Saudi Arabia</p> <p>The Management of NORM in Norway Astrid Liland, Norwegian Radiation Protection Authority</p> <p>The Situation of NORM in Non-uranium Mining in China Liu Hua, ICRP C4 & National Nuclear Safety Administration, China</p> <p>NORM in Argentina Analia Canoba, Autoridad Regulatoria Nuclear, Argentina</p> | <p>Radiological Protection in Waste Management <i>Chair: Wolfgang Weiss, ICRP C4</i></p> <p>IAEA Safety Standards on Disposal of Radioactive Waste Magnus Vesterlind, International Atomic Energy Agency</p> <p>Radioactive Waste Management in France, Safety Demonstration Fundamentals Gérald Ouzounian, Agence nationale pour la gestion des déchets, France</p> <p>NRC Regulations for Geological Disposal of Radioactive Wastes Timothy McCartin, Nuclear Regulatory Commission, USA</p> <p>Report of the ICRP TG 80 “Radiological Protection in Geological Disposal of Long-lived Solid Radioactive Waste” Wolfgang Weiss, ICRP C4 & Federal Office for Radiation Protection, Germany</p> |

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| <p>Wed Oct 26 13:30 to 15:30</p> | <p>Experience in Implementing ICRP Recommendations <i>Chair: Jaiki Lee, ICRP MC</i></p> <p>Stakeholder Involvement with Development and Implementation of ICRP Recommendations: The NEA Experience Ted Lazo, Nuclear Energy Agency</p> <p>IRPA's Perspective Ken Kase, International Radiation Protection Association</p> <p>Views from the International Atomic Energy Agency Renate Czarwinski, International Atomic Energy Agency</p> <p>Views from the European Commission Augustin Janssens, European Commission</p> <p>Views from the Korea Institute of Nuclear Safety Kunwoo Cho, Korea Institute of Nuclear Safety</p> <p>U.S. NRC Discussion of Options to Revise Radiation Protection Regulations Donald Cool, ICRP C4 & Nuclear Regulatory Commission, USA</p> | <p>Protection against Radon in Workplaces <i>Chair: John Cooper, ICRP MC</i></p> <p>Radon: Evidence for Health Effects Margot Tirmarche, ICRP C1 & Institut de Radioprotection et de Sûreté Nucléaire, France</p> <p>Radon Dosimetry John Harrison, ICRP C2 & Health Protection Agency, UK</p> <p>Radon and the System of Radiological Protection Jean-Francois Lecomte, ICRP C4 & Institut de Radioprotection et de Sûreté Nucléaire, France</p> <p>Radiological Protection and Radon: An Industry View John Takala, Cameco Corporation, Canada</p> |
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| | <p>Symposium Summary and Conclusions <i>Chair: Claire Cousins, ICRP Chair</i></p> |
| | <p>Radiological Protection of the Environment Jan Pentreath, ICRP MC and C5 Chair, UK</p> |
| | <p>Constraints and Reference Levels, NORM and Waste Jacques Lochard, ICRP MC and C4 Chair & Centre d'étude sur l'Evaluation de la Protection dans le Domaine Nucléaire, France</p> |
| Wed Oct 26 | <p>Radiological Protection in Medicine Eliseo Vañó, ICRP MC and C3 Chair & Complutense University, Spain</p> |
| 16:00 to 17:45 | <p>Effective Dose & Radiological Protection in Space Hans Menzel, ICRP MC and C2 Chair, Switzerland</p> |
| | <p>Tissue Reactions & Modulating Factors and Risk Assessment Julian Preston, ICRP MC and C1 Chair & Environmental Protection Agency, USA</p> |
| | <p>Protection against Radon in Workplaces John Cooper, ICRP MC & Health Protection Agency, UK</p> |
| | <p>The System of Radiological Protection & Experience in Implementing ICRP Recommendations Abel González, ICRP Vice-chair & Autoridad Regulatoria Nuclear, Argentina</p> |
| | <p>Symposium Closing Remarks Claire Cousins, ICRP Chair & Addenbrooke's Hospital, UK</p> |