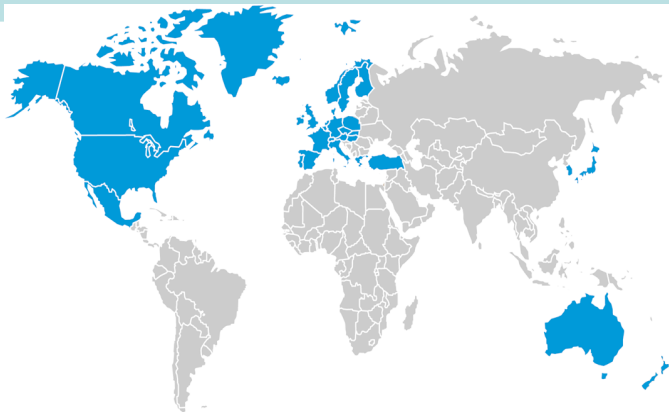


The Committee on Radiation Protection and Public Health (CRPPH) Moving Forward Together

Ted Lazo
OECD Nuclear Energy Agency



The 28 NEA Members

- The 15 European Union members before recent enlargement
- Czech Republic, Hungary and the Slovak Republic
- Switzerland, Norway, Iceland and Turkey
- The United States, Canada and Mexico
- Japan, Korea, Australia
- The European Commission also takes part in NEA work

The NEA Mission

- To assist its member countries in maintaining and further developing, through international co-operation, the scientific, technological and legal bases required for a safe, environmentally friendly and economical use of nuclear energy for peaceful purposes.
- To provide authoritative assessments and to forge common understandings on key issues, as input to government decisions on nuclear energy policy, and to broader OECD policy analyses in areas such as energy and sustainable development.

NEA Simplified Structure

Steering Committee for Nuclear Energy

Committee on the Safety of Nuclear Installations – CSNI

Committee on Nuclear Regulatory Activities – CNRA

Radioactive Waste Management Committee – RWMC

Committee on Radiation Protection and Public Health – CRPPH

Nuclear Law Committee - NLC

Committee for Technical and Economic Studies
on Nuclear Energy Development and the Fuel Cycle - NDC

Nuclear Science Committee - NSC

The CRPPH

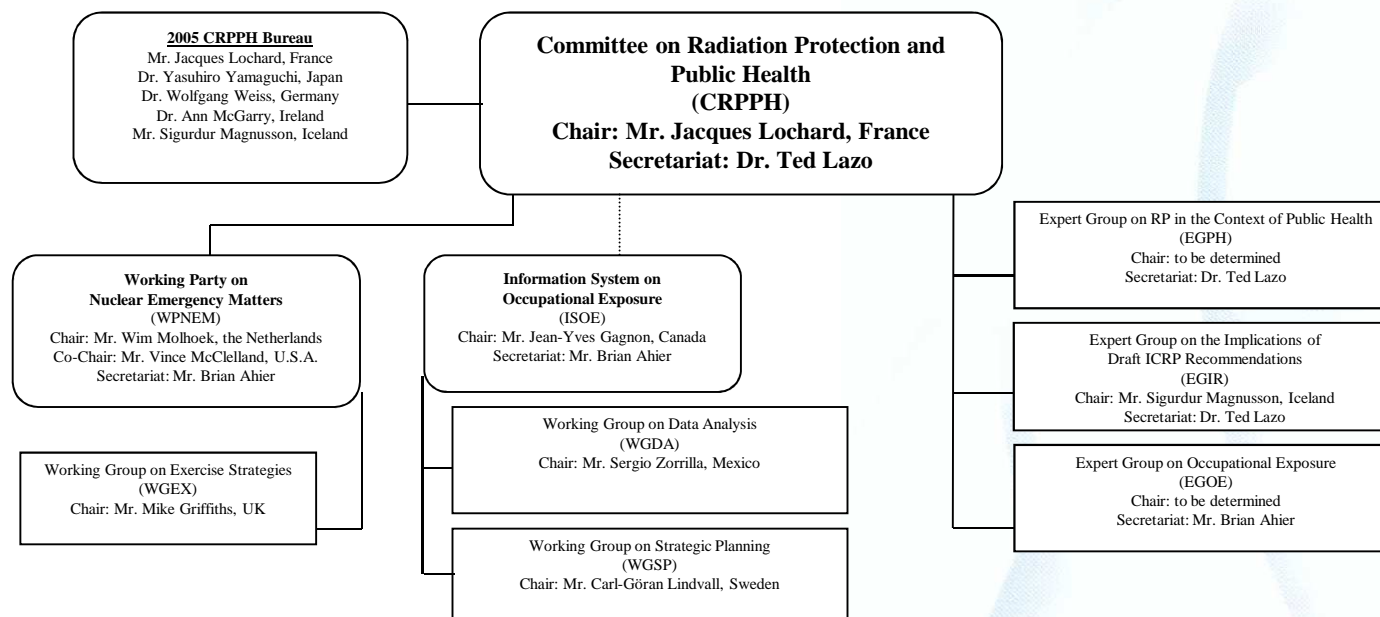
Mission

- Assist member countries in the regulation and application of the system of radiation protection by identifying and addressing conceptual, scientific, policy, operational and societal issues in a timely and prospective fashion, and clarifying their implications.
- Regular attendance of approximately 60 experts from national regulatory bodies and national RP expert organisations

Committee on Radiation Protection and Public Health (CRPPH)

- Established in 1957 (50th anniversary in 2007), the first NEA standing technical committee
- Composed of policy makers, regulatory authorities, RP experts and research organizations
- Main Areas of Focus:
 - Emerging challenges in radiological protection
 - Nuclear emergency exercises and consequence management
 - Occupational Exposure at nuclear power plants

Structure of the CRPPH for 2006 - 2007



WORKSHOPS

Workshop (July 2006) 3 rd Asian Regional Conference on the System of Radiological Protection PC Chair: Dr. Yasuhiro Yamaguchi, Japan	Workshop (August 2006) North American Regional Conference on the Evolution of the System of Radiological Protection PC Chair: Ms. Margaret Federline, USA	Workshop (October 2006) 3 rd NEA/ICRP Forum PC Chair: Mr. Jacques Lochard, France
Workshop (May 2006) INEX 3 Summary Workshop PC Chair: Mr. Mike Griffiths, UK	Workshop (May 2007) CRPPH 50 th Anniversary Radiological Protection in Today's World: Moving Forward Together PC Chair: Mr Jacques Lochard, France	Workshop (February 2008) Possible Implications of Radiological Protection Science in RP Policy Regulation and Application PC Chair: to be determined

SCOPING STUDIES

- Ad-Hoc Scoping Group on Best Available Techniques and New Nuclear Build
- Ad-Hoc Scoping Group on the Justification and Optimisation of New Nuclear Build
- Ad-Hoc Scoping Group on the Implications of Stakeholder Involvement on Organisational Structures

The CRPPH

Emerging Challenges in RP

Evolution of the System of Radiological Protection

- NEA/ICRP Dialogue and Implications for Regulation
- Emerging Challenges in RP Science
- RP Decision Making Processes

Evolution of the System NEA/ICRP Dialogue

The CRPPH has been actively working to assure that new ICRP recommendations will best address governmental and regulatory needs:

- 6 years of Dialogue with the ICRP since 2000
- 7 International Workshops to discuss ICRP evolution
- Direct interaction with ICRP Chair
- Detailed assessment of various drafts (2003, 2004, 2006) involving input from all NEA Standing Technical Committees
- 13 Relevant CRPPH Reports
- Mobilisation of over 100 experts from 17 countries and 25 national governmental organisations

Major Steps of the NEA/ICRP Dialogue

- Feb. 2002: 1st NEA/ICRP Dialogue Forum, Taormina, Italy
- Oct. 2002: 1st Asian Regional Workshop, Tokyo, Japan
- Mar. 2003: EGIR 1: Detailed Comments on RP of Non-Human Species
- April 2003: 2nd NEA/ICRP Dialogue Forum, Lanzarote, Spain
- July 2004: 2nd Asian Regional Workshop, Tokyo, Japan
- Dec. 2004: EGIR 2: Detailed Comments on RP04
- July 2006: 3rd Asian Regional Workshop, Tokyo, Japan
- Aug. 2006: North American Regional Workshop, Washington DC, USA
- Sept. 2006: EGIR 3: Detailed Comments on RP06
- Oct. 2006: 3rd NEA/ICRP Dialogue Forum, Prague, Czech Republic

Key Results of the NEA/ICRP Dialogue

- Several concepts have been retained
 - Dose Limits
 - Justification
- Several concepts have been modified
 - Structure of the recommendations changed to more clearly reflect the system's application (in planned, emergency and existing situations)
 - The concept of dose constraints has evolved and has been made more clear
 - Numerical guidance has been reduced and refocused
 - RP of the environment has been tempered

Key Results of the NEA/ICRP Dialogue

- Broad dialogue has informed the ICRP of stakeholder needs and concerns, while also informing stakeholders of the ICRP's evolving views and approaches
- A new process has emerged for the development of ICRP recommendations:
 - Dialogue and stakeholder input to “road-test” evolving ICRP concepts
 - Pre-publication “communication strategy” to help users to gain understanding of the approach to smooth translation to policy, regulation and implementation

Bibliography of Relevant Publications

- The Process of Regulatory Authorisation (2006)
- Background study of national environmental protection legislation / international standards (2006)
- Second Asian Regional Conference Proceedings (2005)
- Optimisation in Operational Radiological Protection (2005)
- Future Policy for Radiological Protection: Lanzarote Summary (2004)
- Future Policy for Radiological Protection: Lanzarote Proceedings (2003)
- Possible Implications of Draft ICRP Recommendations (2003)
- First Asian Regional Conference Proceedings (2003)
- A New Approach to Authorisation (2003)
- Radiological Protection of the Environment: Taormina Summary (2003)
- Radiological Protection of the Environment: Taormina Proceedings (2003)
- The Way Forward in Radiological Protection (2002)
- A Critical Review of the System of Radiation Protection (2000)

Evolution of the System Emerging Challenges from RP Science

- **Possible Scientific Issues and their Implications**
 - The Current Radio-biological Paradigm is being challenged by non-targeted effects
 - Individual Sensitivity
 - Epidemiology
 - Adequacy of the concept of dose to estimate risk
- **Possible Emerging Challenges in the Application of RP**
 - RP in medical exposures
 - RP of the environment
 - Health Impacts of accidents and radiological terrorist attacks

Evolution of the System

Emerging Challenges in RP Decision-Making

- **Balancing Local, National and International Needs**
 - Holistic Approach to Risk Management
 - The Precautionary Principle in Practice
- **Involving the Public and Workers in RP**
 - Inclusive Risk Governance / Citizen Vigilance
 - Maintenance of RP and Safety Culture in the Workplace
- **Addressing Complex Exposure Situations**
 - Legacy of Contaminated Areas and Materials
 - Decommissioning and Dismantling
 - Rapid Evolution of Radiation Use in Medicine
 - Nuclear Emergencies and Terrorist Actions
- **Maintaining Competence, Transmission of Inheritance**

Emerging RP Challenges Future Work of the CRPPH

- **Science and Values in RP Policy**
 - **NEA Workshop: Explore the translation of scientific facts and uncertainties, models, values and principles into RP policy, and the prospective exploration of the possible implications of recent and ongoing scientific research: Finland, January 2008**
- **RP from the Perspective of Public Health**
 - **Expert Group: Preliminary study to assess possible implications (draft report, May 2007)**
- **Evolving decisional processes and organisational structures**
 - **Ad-Hoc Group: Case study assessment of the effect of stakeholder involvement on organisational procedures and structures (Preliminary Report, May 2007)**

Emerging RP Challenges Future Work of the CRPPH

- **RP of the Environment**
 - Emerging topic, much discussion still needed
 - NEA Workshop proposed for 2008 to discuss the goals and objectives of RP of the Environmental, and implications for Policy
- **International Basic Safety Standards**
 - Revision based on past experience and new ICRP recommendations
 - NEA will actively work to assure that the new BSS addresses the needs of policy makers and regulatory bodies
 - NEA will produce draft text on emergencies, dose constraints, and potential exposures

CRPPH 50th Anniversary Moving Forward Together - 31 May 2007

- **Celebrating 50 years of CRPPH accomplishments**
- **Presenting the CRPPH view of possible emerging challenges**
- **Presenting the views of top RP regulatory authorities on possible emerging challenges**
- **Dialoguing with key international organisations on their views of emerging challenges, and on how to best move forward together to address them**

Thank You For Your Attention!!

For More Information

See our Web Site

WWW.NEA.FR