

ICRP and Fukushima

The Fukushima Daiichi Nuclear Power Plant
Accident, Ten Years On:
Progress, Lessons and Challenges

NEA Virtual Webinar

3rd March 2021

ICRP and Fukushima

- **ICRP has been involved with Japanese colleagues and people since the Fukushima Daiichi accident**
- **The Commission reacted promptly and concretely**
- **Early letter of sympathy to people of Japan**
- **Anniversary messages**

ICRP and Fukushima

- **TG 84 established soon after the accident to compile first lessons related to system of RP**
- **Autumn 2011: ICRP began Dialogue Initiative**
- **Main Commission meeting Fukushima City October 2012**
- **TG 93 established in 2013 to update Publications 109 and 111 following the Fukushima experience (*Publication 146*)**
- **Virtual International Conference on Recovery After Nuclear Accidents, December 2020**

ICRP Task Group 84

- **TG 84 established 2011, released Nov 2012**
- **18 issues and 11 recommendations on:**
 - Improving understanding, resolving confusion and technical issues
 - Radiation risk, quantities and units, protection levels, psychosocial consequences, protecting rescuers and volunteers, public monitoring, crisis management, information sharing
- **Results influence the ICRP programme of work**

The Fukushima Dialogue

- **Series of 22 meetings held in Fukushima Prefecture to discuss openly the challenges of the recovery process and to share experiences**
- **Brought together experts, authorities, local communities and individual citizens**
- **Initially ICRP initiative with support of foreign organisations**
- **Then joint co-operation between Fukushima residents and ICRP supported by Japanese organisations**

The Fukushima Dialogue

Phase I: ICRP Dialogue Initiative 2011 – 2015

- Led by ICRP
- 12 Dialogue Meetings & International Workshop

Phase III: Fukushima Dialogue 2018 and Beyond

- Led by local NPO with President Ryoko Ando
- Dec 2018, Aug 2019, Dec 2019, ...

Phase II: Continuing Dialogue with ICRP 2016 – 2018

- Local people in collaboration with ICRP
- 7 Dialogue Meetings

The Fukushima Dialogue

- **Topics discussed:**
 - Rehabilitation of living conditions
 - Improving the quality of food products
 - Education of children and youth
 - To return or not, to stay or leave
 - The value of tradition and culture in Fukushima
 - The role of measurements in regaining control
 - Experience we have gained together

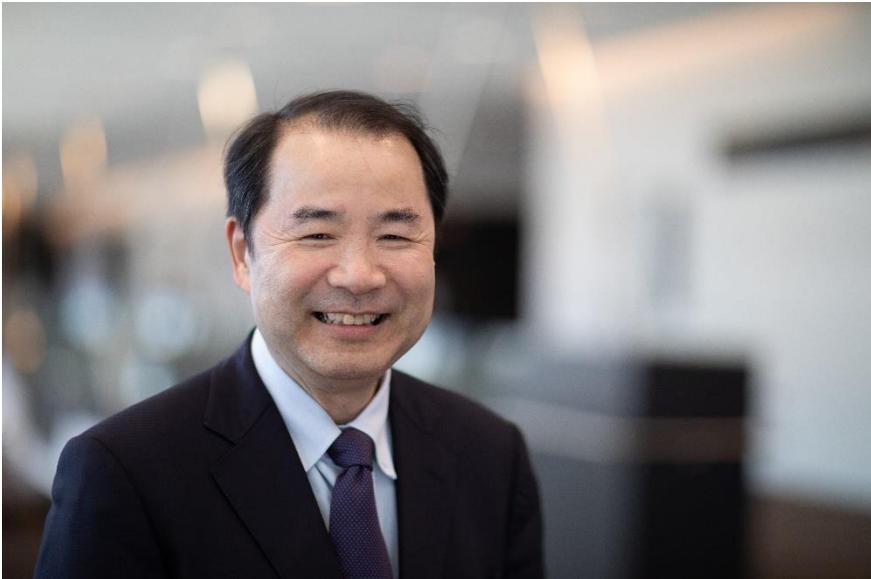


ICRP Task Group 93

Chair: Michiaki Kai

Vice-Chair: Toshimitsu Homma

- **Established 2013**
- ***Publication 146, 2020***



ICRP *Publication 146*

ICRP Publication 109

Application of the Commission's
Recommendations for the Protection of
People in Emergency Exposure Situations

ICRP Publication 111

Application of the Commission's
Recommendations to the Protection of
People Living in Long-term Contaminated
Areas after a Nuclear Accident or a
Radiation Emergency



ANNALS OF THE ICRP

PUBLICATION 146

Radiological Protection of People and
the Environment in the Event of a Large
Nuclear Accident

VOLUME 49 NO. 4, 2020

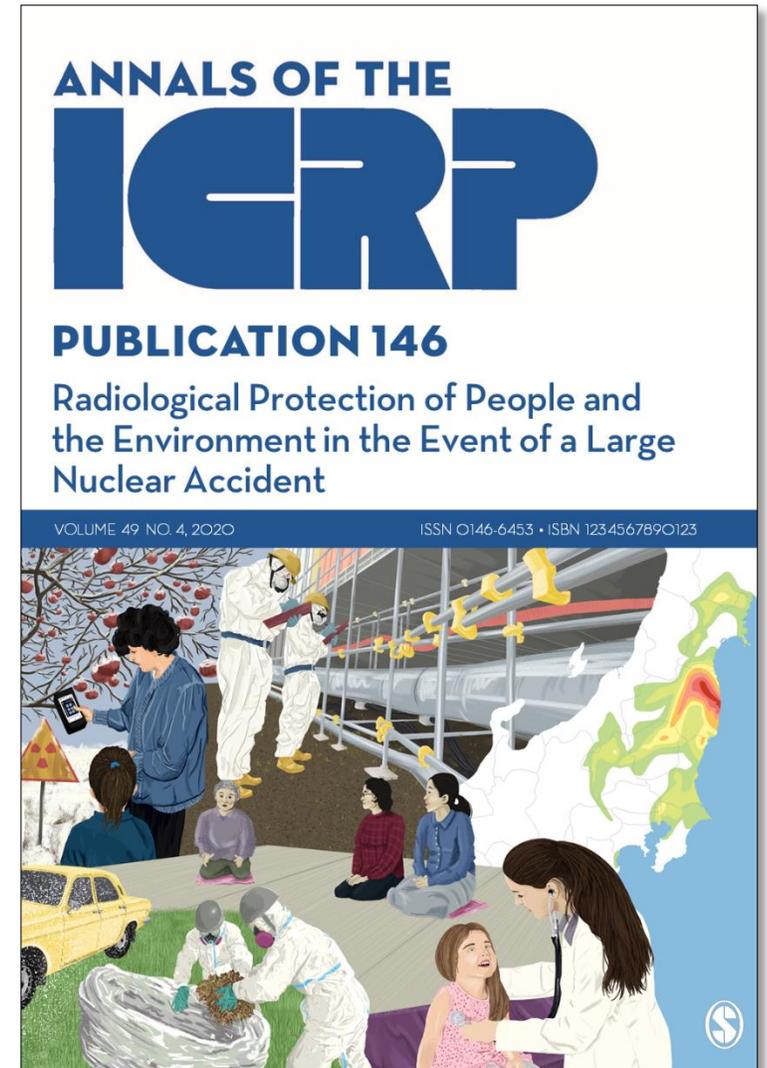
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ICRP *Publication 146*

Supersedes *Publications 109 & 111*

- Early, intermediate and long-term phases
- Environmental, societal and economic consequences
- Protection of responders
- Co-expertise process
- Set of references levels
- Annexes on Chernobyl and Fukushima



ICRP Recovery Conference

- **Nearly a decade after the Fukushima accident was an appropriate time to reflect on lessons and experiences and to consider what still needs to be done**
- **Many organisations, authorities and individuals have worked tirelessly to learn and to try and improve the lives of those affected**
- **Recognition of the challenges still facing residents of Fukushima**

ICRP Recovery Conference

- **Extensive discussion including individual stories and people's endeavours**
- **One of the main messages is to recognise the importance of the co-expertise process during recovery**
- **This means the best approach is working with the affected people and not for them**

Lessons from Nuclear Accidents

- **What have radiological protection and other professionals learnt?**
 - The human and ethical dimensions of nuclear accidents leave a legacy that can help support those who may be affected in the future
 - These dimensions are at least as significant as the effects of radiation



Lessons from Nuclear Accidents

- **What have radiological protection and other professionals learnt?**
 - Encourage self-help protection of affected communities
 - Develop a practical radiological protection culture



Ongoing Issues for Fukushima

- **Managing waste from decontamination process**
- **Release of radioactive water (tritium) into ocean**
- **Returning and living in affected areas of Fukushima**
- **Health surveillance**
- **Organising memory of events for future generations**



Going Forward

- **Dialogue and communication with local populations regarding past experiences is key**
- **ICRP will continue to work with Japanese colleagues and people, and lessons learnt from large nuclear accidents will form part of its revised recommendations**



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