

EURADOS Stakeholder Workshop on June 30th, 2016

On June 30th, 2016, the “First EURADOS Stakeholder Workshop” was held at the Helmholtz Center Munich (HMGU) in Neuherberg, Germany. The workshop was jointly organized by the HMGU and the EURADOS Office in conjunction with the 57th EURADOS Council meeting, which took place on June 29th and July 1st, also at the HMGU.

In the frame of the “European Joint Programme for the Integration of Radiation Protection Research”, the CONCERT project funded by the European Commission is supposed to provide an umbrella structure for radiation protection research in Europe. In this project, EURADOS leads Task 2.4 on the “Development of Strategic Research Agenda, roadmap and priorities for research on dosimetry”. While a first version of the EURADOS Strategic Research Agenda (SRA) has already been published, this workshop was intended to develop the SRA further by asking for feedback and input from international organizations with interest in the dosimetry of ionizing radiation.

History of SRA development

In 2012, the EURADOS Council recognized the need to actively contribute to the identification of future research needs in radiation dosimetry in Europe and encouraged all eight EURADOS working groups (WGs) to collect the required information, depending on their field of expertise. In February 2013, the Council established a dedicated Task Group (TG) to collate this information and produce a draft first version of a EURADOS Strategic Research Agenda (SRA) for dosimetry. An advanced version of the SRA was distributed in January 2014 among the EURADOS Voting Members and Working Group Chairs, for discussion. This version was produced with major input from all EURADOS WGs and the Voting Members. It included what – according to the EURADOS community – should be done to improve dosimetry during the next decades and be funded in future calls issued by the European Commission. The SRA was published as EURADOS Report 2014/01, which can be downloaded from the EURADOS website (www.eurados.org). In early 2016, a condensed version of the EURADOS SRA appeared in the printed version of *Radiation Protection Dosimetry* (Radiat. Prot. Dosim. 168, 223-234, 2016).

In the past, this SRA version has already been presented by members of EURADOS to the scientific community on various occasions including, for example, at the 5th MELODI Workshop in October 2013 in Brussels, Belgium; the OPERRA meeting in Jan 2014 in Rome, Italy; the German Radiation Protection Association in April 2014 in Munich, Germany; the IRPA 2015 Congress in June 2014, in Geneva, Switzerland; the 6th MELODI Workshop in October 2014 in Barcelona, Spain; the Health Physics Society meeting in July 2015, in Indianapolis, USA.

The current EURADOS SRA version includes five visions for dosimetry. For each vision, key challenges in dosimetry research were identified that were considered important for the next decades. These visions will also be used to steer the EURADOS research programs and the working group activities. The first vision describes scientific developments required

towards updated fundamental dose concepts and quantities. The second vision includes scientific developments needed towards improved radiation risk estimates deduced from epidemiological cohorts. The third vision deals with efficient dose assessment for radiological emergencies. The fourth vision identifies work towards integrated personalized dosimetry in medical applications. Finally, the fifth vision identifies efforts needed towards improved radiation protection of workers and the public.

Organization of the First EURADOS Stakeholder Workshop

It was acknowledged from the beginning that the EURADOS SRA was a moving target and that continuous efforts are needed to improve and update the SRA. At its meeting in July 2015 in Braunschweig, Germany, the EURADOS Council decided to organize a one-day workshop where relevant stakeholders should be invited and asked to provide their view on the current version of the EURADOS SRA. The date proposed for the workshop was June 30th, 2016. It was further decided that for this effort, emphasis should be placed on international organizations expected to be interested in an improved dosimetry of ionizing radiation. A list of potential stakeholders was then developed, the workshop program was drafted, and invitations were distributed.

Participants

Altogether, 24 international organizations accepted the EURADOS invitation and sent delegates to explain their view on the EURADOS SRA. The following organizations were present (listed in alphabetical order):

European Radioecology Alliance (ALLIANCE), European Association of Nuclear Medicine (EANM), European Federation of Organisations for Medical Physics (EFOMP), European Nuclear Installations Safety Standards Initiative (ENISS), European Society of Radiology (ESR), European Society for Radiotherapy and Oncology (ESTRO), European Association of National Metrology Institutes (EURAMET), Heads of the European Radiological Protection Competent Authorities (HERCA), International Atomic Energy Agency (IAEA), World Health Organization (WHO), International Commission on Radiological Protection (ICRP), International Commission on Radiation Units & Measurements (ICRU), International Labor Organization (ILO), International Radiation Protection Association (IRPA), International Organization for Standardization (ISO), International Solid State Dosimetry Organization (ISSDO), Multidisciplinary European Low Dose Initiative (MELODI), Nuclear Energy Agency (NEA), European Platform on Preparedness for Nuclear and Radiological Emergency Response and Recovery (NERIS), Nuclear Generation II and II Association (NUGENIA), Particle Therapy Co-Operative Group (PTCOG), Realizing the European Network of Biodosimetry (RENEB), Social Sciences and Humanities (SSH).

Workshop Programme

After a short introduction given by W Rühm, the Chair of EURADOS and acting director of the HMGU Institute of Radiation Protection, M Atkinson (director of the HMGU Institute of

Radiation Biology) introduced the HMGU Department of Radiation Sciences. A summary of the EURADOS Strategic Research Agenda was then given by F Vanhavere from SCK-CEN, the Vice-Chair of EURADOS, followed by an overview on the CONCERT project given by N Impens (SCK-CEN) who leads the CONCERT work package 3 on “Priority Research and Joint Programming Needs in the Perspective of European Integration”.

The rest of the day was devoted to the presentations of the invited stakeholder organizations. In their presentations, the stakeholders were asked to briefly introduce their organization and why they are interested in the dosimetry of ionizing radiation. After that they were asked to address the following questions raised by the EURADOS Council in advance: 1) Which vision or challenge included in the EURADOS SRA needs further improvement? 2) Are there any important topics missing? 3) What are the 5 most important challenges in the EURADOS SRA (please give rank)? 4) In which field should your organization and EURADOS collaborate in the future?



Picture on the right: Participants of the Workshop

At the end of the Workshop, members of the EURADOS Council (P Olko, Poland; Ž Knežević, Croatia) prepared and presented a short summary of the comments provided by the participants.

It was agreed that the inviting EURADOS Council will prepare minutes of the Workshop to be distributed among the participants. Based on these minutes, a report will be prepared for CONCERT. Based on the comments received from the participants, EURADOS will update its Strategic Research Agenda, and produce and publish a second SRA version.

At the end of the Workshop, the discussion revealed that the format of the Workshop including about 10 minutes presentations given by the invited organizations was efficient and well received.

The EURADOS Council and EURADOS WG chairs wish to express their sincere gratitude to all those who accepted the invitation and gave comments and feedback on the current version of the EURADOS SRA.

Neuherberg, Germany, June 30th, 2016

W. Rühm, E. Fantuzzi, R. Harrison, H. Schuhmacher, F. Vanhavere, J. Alves, J.F. Bottollier Depois, M. Caresana, P. Fattibene, P. Gilvin, Ž. Knežević, M.A. Lopez, S. Miljanić, P. Olko, H. Stadtmann, R. Tanner, A. Vargas, C. Woda