

15.2 Implementing ALARA approach together: the in-house feedback exchange systems and outside networks (Part 2)



International System on Occupational Exposure (ISOE)

ISOE works since 30 years now with an increasing success

During the workshops in one world region the best presentations are distinguished and invited to the next workshops in the other regions

We can say that ISOE merges top down and bottom-up approaches and that even if the data base is the glue:

Personal contacts with other professional facing the same problems are considered essential by most participants

ISOE is a world wide sector-specific network; financially supported by the NPP's and regulatory bodies and IAEA support for non OECD countries

European ALARA Network (EAN)



It has been set up in 1996 following an initiative from the European Commission

It relies on voluntary participation from individuals and institutions to improving occupational exposure in industry, research, medicine, NORM industries...

The EAN main tools are the Newsletter and the workshops

Widen to patient - public exposures in 2005

Totally bottom up

EAN Objectives



To maintain and develop competences in radiation protection, with special emphasis on optimization for all types of exposures in routine operations and emergency situations.

To contribute to harmonization of radiation protection policies and practices, particularly concerning optimization, at regulatory and operational levels.

To cover all types of practices within the different sectors.

To cover radiation protection themes relevant to all sectors, as well as themes specific to one or more sector(s).

• Contrarily to ISOE it is regional self sustainable multi-sectors network (open to many stakeholders).

The European ALARA Newsletter





2008 begins with a lot of important news for the European ALARA Network.

First of all, it is time to announce the election of our new Chaiperson, Annemaris Schmitt-Hannig, who was nominated during the last Administrative Board meeting, in December 2007. As before, CEPN will continue the general coordination of the network, with the assistance of HPA. Together, we will pursue our efforts to make EAN more and more active and influential on the radiological protection scene.

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Editorial Board

F. Drouet, P. Croüsil, A. Schmitt-Hannig, P. Shaw (email: can@ccepn.asso.fr) Authors are solely responsible for their publication in this Novideur, I: does not represent the opinion of the EAN. The Elitorial Bound is not responsible for any rare that might be made of data nepresent pherein. But every rose has its thorn, and the new appointment coincides, and indeed has been brought about, by Christian Lefaure's retirement. It is time to pay tribute to Christian's talent and enthusiasm in launching and then driving EAN since 1996. He spared no effort to promote the implementation of the ALARA principle throughout Europe in the nuclear, industrial and medical fields and his contribution to the cause of restricting occupational doses has been very significant. Hopefully he has decided not to devote the rest of his life to gardening or bird watching, and will continue to help us in the development of ALARA networking throughout the world (Asia, Africa, South America, etc.). For these reasons, he remains an honorary member of the EAN Steering Group and no doubt we will continue to meet him wherever the optimisation of radiological protection is still at stake

The third main EAN event is the organisation of the 11ⁿ Workshop on "ALARA in waste management" in Athens (Greece, 9-11 April 2008). Radioactive waste management has always been considered as the Achille's heel of nuclear activities, and is increasingly of concern in other sectors such as nuclear medicine and NORM. That is why it is very important for operators from all sectors to demonstrate their commitment to applying ALARA for the characterisation, measurement, control, packaging, disposal and final storage of radioactive wastes. As well as responding to the immediate concerns regarding radioactive waste. implementing ALARA in waste management is also an opportunity to integrate this activity - often seen as a noor relation - into the main operational and decisional chains. Only by doing so, can we hope to achieve real optimisation of doses, for both workers and the public. now and in the future.

2008 is also an olympic year: we have the ALARA torch in our hands, and must take it a little bit further. It is a real challenge.

A. Schmitt Hannig, EAN Chairperson P. Croüail, EAN Coordinator P. Shaw, EAN Secretary

Coordinated by CEPN, European ALARA Neusdetter ISSN 1270-9441 e0 CEPN - 28, rue du Redeaue - F-92369 FONTINAV-AUX-30088 TEL +33 1 55 52 19 20 EMMI: excitorementer 41 55 52 19 21 EMMI: excitorementer 6 Twice a year EAN produces an ALARA Newsletter, a link between all those concerned with ALARA, health physicists, managers, radiation protection organisations, research bodies, regulatory bodies, trade union representatives and medical doctors.

This Newsletter intends to present evolution of regulations, results of research, analyses of dosimetry data, authorities and utilities ALARA programmes, available ALARA tools, lessons learnt from incidents, and recommendations coming from the panel sessions of the EAN Workshops.

Each issue includes one or two feature articles, as well as experts' viewpoints and ALARA information



The EAN workshops



The annual Workshops topics are selected :

- Where improvements are possible
- Dealing with exposures management
- And existing possibilities of actions to be implemented at national or European levels

Few tens of participants

Conclusions and about 10 recommendations per workshop addressed to EU, ICRP, IAEA, National Regulatory Authorities, Operators, Workers trainers, and so on

Let's try going to EAN through ORPNET



Go to Google Ask for IAEA, ORPNET Go to ORPNET Ask for EAN Go to workshops Select one of them Have a look to the program and downloadable papers Download summary and recommendations Back to the main menu Go to lessons learned (partly extract from OTHEA, but also from many other countries)

GO back to ORPNET And introduce quickly the other ALARA networks

RECAN	Regional European and Central Asian ALARA Network		
ARAN,	Asia Regional ALARA Network		
REPROLAM (in Spanish),	REd de optimización de Protección Radiológica		
	Ocupacional en Latino América		
AFRAN	AFRica ALARA Network		
EMAN	European Medical ALARA Network		
ISEMIR	International System on Occupational Exposure in Medicine,		
	Industry and Research		



ORPNET is also a useful tool

With a search engine *Google like* but going only into the documents published by the different networks and organizations.

This allows to share more quickly what is issued in the different networks : it is a kind of network of networks.

There is also, in two languages (English and French a FAQ (frequently ask questions) on optimization with their answers; they cover more than 70 questions.

Emergence of ORPNET



Emergence of these networks has been made possible because of the context evolution during the 90's and beginning of the 21st Century

Development of standards (ICRP, IAEA, EC...)

• - The concept of ALARA and how to develop it (end of the last century)

Socio political evolutions

• - "the involvement of stakeholders is seen as an important input to the optimization process" because it "reinforces the safety culture and introduces the necessary flexibility in the management of the radiological risk that is needed to achieve more effective and sustainable decisions". ICRP 101

• - Fourth word Time, distance, shielding, Stakeholders commitment

Technological evolutions

New communication means web, emails

Lessons learned from these networks



Personal links and Communication	Enthusiasm	Flexibility	Collective efficiency	Constraints and limits of the networks
Opportunities for communication between individuals, not institutions	A real keyword	Much more than any other type of organisation between institution	Differences lead to solutions more generic	Difficulties for involving stakeholders due to their availability and for financial reasons
	To put forward for discussion the real problems	No permission has to be requested	Solutions with more chance of sustainability	To find resources and time
	To try to find together solutions	No formal rules have to be followed.		To find an optimal size for the network, allowing direct contacts through meetings and workshops
	Through actions favouring a bottom-up approach	Initiatives are easily taken		

Conclusions



During the nineties and later on, as an answer to the evolution of socio political demand, and thanks to the technological communication means, a new generation of radiation protection networks has grown up.

They are set up on different geographical bases from worldwide networks to very local ones; they sometimes cover a specific topic (training for example) or a specific domain (medical for example), they are more often multi-topic and multi-sectors; they always rely on communication and exchanges through direct contacts, most often complemented by emails, web sites and forum...



Annex EAN Impacts examples (1)

A research project on optimization of radiological protection of internal exposure (W1 & 3)

A European survey for the setting up of a new European system dealing with radiological incidents follow up (W2)

Following a W9 recommendation. ICRP RP06 paragraph 133 is directly related to the results of the research project (dose coefficients and low radon emanation).

All sub networks have been set up (or will be) after W recommendations.



Annex Impacts examples (2)

One of the most interesting impact has been the setting up by the Norwegian regulatory body of a long term national plan for improving radiological protection in implementing the recommendations from the previous EAN workshops.

Many countries have set up working groups between regulatory bodies and other stakeholders after W5 and W6 workshops

After W5, EDF, the French nuclear utility has promoted the development of an alarm device called "sentinelle" for advising worker when the source is not back in the container.