



EAN General Objectives

- **Promote a wider and more uniform implementation of the ALARA principle for the management of worker, public and patient exposures in all situations**
- **Provide a focus and a mechanism for the exchange and dissemination of information from practical ALARA experiences**
- **Identify and investigate topical issues of common interest to further improve the implementation of ALARA.**



EAN Membership

Administrative Board Members

- **ASN - Nuclear Safety Authority, France (til 2013)**
- BfS - Federal Office for Radiation Protection, Germany (EAN Chairmanship 2008-2010)
- CEPN - Nuclear Protection Evaluation Centre, France (EAN Chairmanship 2005-2007)
- CSN - Nuclear Safety Council, Spain
- EKOTEH Dosimetry Co., Croatia
- GAEC - Greek Atomic Energy Commission, Greece
- PHE- Public Health England, UK
- NRG - Nuclear Research and consultancy Group, The Netherlands
- NRPA - Norwegian Radiation Protection Authority, Norway
- RPII - Radiological Protection Institute of Ireland, Ireland
- SCK-CEN - Belgian Nuclear Research Centre, Belgium (EAN Chairmanship 2010-2014)
- Seibersdorf Labor GmbH, Austria
- SFOPH - Swiss Federal Office of Public Health, Switzerland
- SSM - Swedish Radiation Safety Authority, Sweden
- **STUK - Radiation and Nuclear Safety Authority, Finland (til 2011)**
- SUJB - State Office for Nuclear Safety, Czech Republic

Other EAN Steering Group Members

- ISS - Italian Institute of Health, Italy
- SRPA - Slovenian Radiation Protection Administration, Slovenia
- ITN - Nuclear and Technological Institute, Portugal
- GR - Icelandic Radiation Safety Authority, Iceland
- SIS - National Institute for Radiation Protection, Denmark



New designs

New Website <http://www.eu-alara.net/>
Newsletter and e-Newsletter (2013)



European ALARA Network - 34th Issue - February 2014





EAN 2010-2015 Strategic Objectives (1)

Context: New challenges for ALARA

- Emergency and existing exposure situations (e.g. radon and NORMs)
- Medical sector (new technologies, incidents & accidents)
- Nuclear sector (ageing of existing installations and building of new ones)
- E&T (retirement, skills maintenance and development)

Focus the work of EAN on challenging issues

- Organization of topical Workshops
- Undertaking Specific Surveys
- Production of EAN Feedback Documents
- Establishment of Working Groups on challenging issues following initiatives from EAN Members or requests from external organizations (eg. IRPA, ICRP)



EAN 2010-2015 Work Programme (1)

General Work Activities

- Publish articles on the practical ALARA aspects of the challenging issues in the Newsletter
- Make oral presentations/posters on EAN activities in RP conferences at the international and national levels
- Initiate collaboration between ERPAN & HERCA
- Favour the participation to EAN of Central and Eastern Europe countries





EAN 2010-2015 Work Programme (2)

Nuclear and non-nuclear industry

- Advertise good examples of “ALARA in practice” (Newsletter, website)
- Support the ALARA Course for RP specialists in the nuclear sector at the Barsebäck Training Center
- Sign/renew agreements with industrial professional societies, organisations and networks and organize practical collaborative actions (e.g. with EFNDT, EURADOS, RECAN, ARAN)





EAN 2010-2015 Work Programme (3)

Medical field

- 13th workshop: “ALARA and the medical sector” (Oskarsborg fortress, Norway, June 2011)
- Specific issue of the ALARA Newsletter
- Cooperation with EMAN and promotion of EMAN activities
- Sign/renew agreements with medical professional societies, organisations or networks (e.g. EFOMP, EFRS, ESR, EMAN) and organize practical collaborative actions





13th EAN Workshop

13th European ALARA Network Workshop

ALARA

and the medical sector

Oscarsborg Fortress, Norway
7-10th June 2011
First announcement

<http://alara2011.nrpa.no>



Statens strålevern
Norwegian Radiation Protection Authority



European
ALARA
Network



EAN 2010-2015 Work Programme (4)

Existing exposure situations

- (15th) 14th workshop: “ALARA and the medical sector” (Dublin castle, Ireland, September 2012)
- Communicate to ICRP the EAN survey on radon management and EAN feedback on ICRP radon statement
- Follow activities of the ICRP-C4 WG on radon exposure management
- Integrate EAN-NORM activities within EAN





14th EAN Workshop





EAN 2010-2015 Work Programme (5)

ALARA culture

- (14th) 15th workshop: “E&T in RP: Improving ALARA culture” (Rovinj, Croatia, May 2014)
- Diffuse the conclusions of the EAN WG on “ALARA culture” as a contribution to the IRPA WG on “RP culture”
- Design ALARA courses and syllabi for non RP specialists (in particular through the participation of EAN to the TRASNUSAFE project)
- Promote international initiatives to help disseminate feedback and lessons learned from incidents (e.g. by giving support to the RELIR/OTHEA website)
- Collaborate with other European networks (e.g. ENETRAP, EUTERP) whose objectives aim at improving and developing radiation protection education and training



15th EAN Workshop

15th European ALARA Network Workshop and 5th EUTERP Workshop

Education and Training in Radiation Protection: Improving ALARA Culture

Rovinj, Croatia, 7th – 9th May 2014

First Announcement

ROVINJ, CROATIA, 7 – 9 MAY 2014 | FIRST ANNOUNCEMENT

Education and Training in Radiation Protection: Improving ALARA Culture

Welcome!

Aims and Objectives

Previous EAN and EUTERP workshops have noted the importance of delivering effective radiation protection education and training to workers and other stakeholders. Consequently, this joint EAN-EUTERP workshop considers how education and training programmes can be delivered effectively, to improve radiation protection in practice and disseminate ALARA culture.

The workshop will consist of presentations (oral and posters) intended to highlight the main issues, and a significant part of the programme will be devoted to discussions within working groups. Participants will be expected to produce recommendations on education and training issues, to be addressed to relevant local, national and international stakeholders.

Scope of the Workshop

The workshop programme covers education and training for various types of stakeholders and is expected to consider the following subjects:

- The new European BSS
- European qualification and accreditation schemes (ECVET, EQF, etc.)
- The effectiveness and efficiency of education and training
- Practical ALARA training
- New learning tools
- Elements contributing to ALARA culture
- Incorporating ethical aspects into education and training
- Education and training at all organizational levels

15th EUROPEAN ALARA NETWORK WORKSHOP AND 5th EUTERP WORKSHOP

Working Group Topics

- 1 Tools to improve the effectiveness of training: new methods of delivery, blended learning and post-training interaction.
- 2 How to measure the effectiveness of training: post-training assessment, ALARA evaluation, etc.
- 3 The role of qualification and recognition schemes (ECVET, EQF, etc.) and their value in the workplace.
- 4 Incorporating ALARA culture in training requirements for radiation workers and managers, as well as regulators and inspectors.
- 5 How to improve risk awareness, radiation protection and ALARA understanding for different stakeholders and for different exposure situations.

Target Audience

The workshop will be of interest to a variety of stakeholders including training providers, employers and employees' representatives, regulatory bodies, RP networks, research and other organisations involved in radiation protection.





EAN 2010-2015 Surveys

- Radon exposure management (2010)
- Dose constraints (2011)
- Aircraft crews (2012)
- Delineation and access to regulated areas (2013)
- *Lens of the eye ?*
- *Implementation of the New BSS ?*





EAN 2010-2015 Strategic Objectives (2)

Promote the recognition of EAN as an expert organisation on ALARA issues on the international RP scene

- Dissemination of EAN documents at the international and national levels
- Promotion of EAN through participation and presentations of the network to national/international seminars
- Cooperation agreements with international and professional organizations and networks
- Participation of EAN to international projects

Encourage the participation of key stakeholders to EAN

- Encourage the participation of various stakeholders to EAN activities (workshops, working groups, mailing-list, etc.)
- Enlarge the EAN Membership





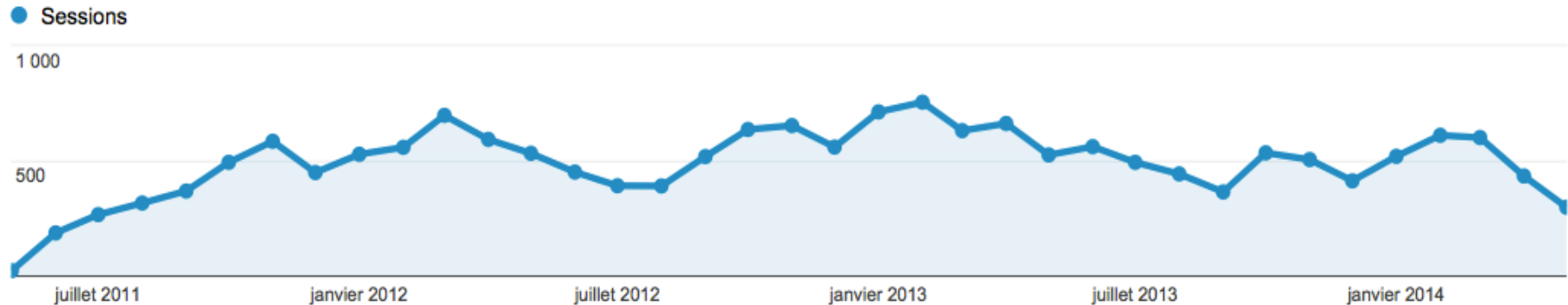
EAN 2015-2020





ANNEXE – Website data

(1) **Number of sessions** - since the beginning of measurement (1st may 2011)



In total: 18 252 sessions opened, 13 714 users and 42 771 pages opened

(2) Origin

- (1) English speakers: 50 %
- (2) French speakers: 10 %
- (3) German speakers: 9,5 %

- (4) Spanish speakers: 3 %
- (5) Italian speakers: 2,4 %
- (6) Russian/NL speakers: 1,6 %



ANNEXE – Website data

(2) Most popular articles

Articles	Clics
<i>The Diagnostic Reference Levels (DRLs) in Europe</i>	12895
<i>5th Workshop on "Industrial Radiography: Improvements in Radiation Protection"</i>	8698
<i>The management of radioactively contaminated soils</i>	7535
<i>10th Workshop on "Experience and new Developments in implementing ALARA"</i>	7349
<i>QA and optimisation in diagnostic radiology - a multi-disciplinary task: How to build a regional service to implement ALARA</i>	7157
<i>European Radioprotection Authority Network (ERPAN)</i>	6921
<i>9th Workshop on "Occupational Exposure to Natural Radiation"</i>	6565
<i>13th EAN Workshop on "ALARA and the Medical Sector"</i>	6003
<i>6th Workshop on "Occupational Exposure Optimisation in the Medical and Radiopharmaceutical Sectors"</i>	5824
<i>11th Workshop on "ALARA in Radioactive Waste Management"</i>	5544