

Welcome address to ALARA and the medical sector

EAN The European ALARA Network

F.Vermeersch Chairman EAN



ALARA Network History and Evolution

- 1996
 - cooperation of experts from various European organisations mediated by the European ALARA training course
 - European Support from 1996 to 2004
 - EC support to three workshops
 - Enthusiast individuals, supported by their institutions
- Evolution to a self supporting network
- **2005**
 - EAN a legal entity, non-profit organisation under French law
 - Coordination CEPN, HPA and a group of European experts
 - EAN Administrative board (financial)
 - Chairman, vice-chairman, treasurer, secretary
 - EAN steering group (activities)



EAN objectives

- First
 - ALARA in industry and research
 - Industry → non NPP (ISOE for NPP)
- Later
 - ALARA in the medical field
 - ALARA in NORM-industry
- Future
 - All exposure situations



ALARA Network 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 participation

- Voluntary cooperation
- Broad range of experts
 - radiation protection authorities and safety authorities
 - industrial companies and services
 - research institutions
 - hospitals
 - ...
- Evolution from 8 to 20 countries since 1996
- Financial support through contributions from different institutions, companies, regulatory authorities, ...organised per country (a representative or contact person per country)

















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Members of the Steering group





European ALARA Network

BELGIUM

SCK-CEN Mol http://www.sckcen.be



http://www.belgonucleaire.be



umicore

Institute National

http://www.ire.be



Marcn http://www.fanc.fgov.be

Federal Agency of Nuclear Control



http://www.belgoprocess.be



Belgian Association for Radiation Protection (BVS-

http://www.bvsabr.be

CROATIA

EKOTEH DOZIMETRIJA d.o.o. EKOTEH Dosimetry RADIATION PROTECTION CO.

http://www.ekoteh.hr



Croatian Ministry of Health and Social Care Website

CZECH REPUBLIC



State Office for Nuclear Safety

http://www.sujb.cz

FINLAND



Radiation and Nuclear Safety Authority (STUK) http://www.stuk.fi

FRANCE



GERMANY



Federal Ministry for the Environment, Nature Conservation and Nuclear Safety



Federal Office for Radiation Protection (BfS) http://www.bfs.de





Greek Atomic Energy Commission (GAEC)

IRELAND



Radiological Protection Institute of Ireland (RPII)

NORWAY



Norwegian Radiation Protection Authority Statens strålevern http://www.nrpa.nc

SPAIN



Consejo de Seguridad Nuclear (CSN)

consejo de seguridad nuclear http://www.csn.es

SWEDEN



Swedish Radiation Safety Authority (SSM)

http://www.stralsakerhetsmyndigheten.se/Allmanhet/ Strål

säkerhets myndigheten Swedish Radiation Safety Authority



Swiss Federal Office of Public Health - Radioprotection Division http://www.str-rad.ch



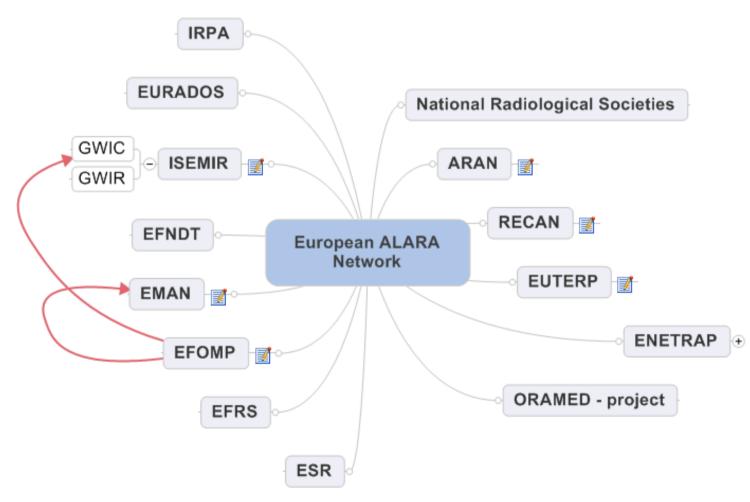
How does the network work

ACTIVITIES AND ACHIEVEMENTES



Contacts with other organisations Networking

European ALARA Network





Collaboration with European and international organisations

Medical field

- EFOMP European Federation of Organisations for Medical Physics
- EFRS the European Federation of Radiographer Societies

Industry

- EFNDT European Federation for Non-Destructive Testing
- Invited to participate in the EAN meetings (steering group, workshops, WG)

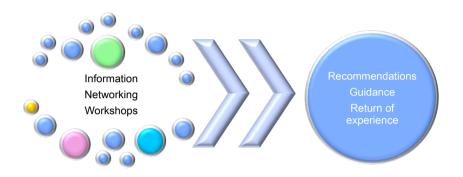


Another way of gathering information Surveys

- The implementation of the European Basic Safety Standards in Directives 96/29 and 97/43 in national regulations (2006),
- The management of radioactively contaminated soils (2006),
- Potential exposures in nuclear installations (2007),
- The Diagnostic Reference Levels (DRLs) in Europe (2007),
- Radon exposure management (2010)
- Aircrew exposures (2011)
- Declaration systems of incidents (2011)
- Dose guidance for emergency workers (2011)



EAN Activities and outputs



Input

output

- EAN Workshops
- Support to European Surveys
- EAN subnetworks
- ALARA Newsletter
- EAN Website





EAN workshops

- Workshops on different topics
 - 60-120 experts
 - Expert papers
 - Scene setting
 - Practical cases
 - Poster session
 - Working groups (questions, discussion topics)
 - Output of the workshop
 - Recommendations
 - Documented in
 - Newsletter
 - EAN Website
 - National radiation protection journals



In preparation
ALARA in existing
exposures situations
Dublin Castle,
Ireland, 2012
ALARA Culture
Croatia, 2014

Workshops

ALARA and decommissioning	Saclay, France, 1997
Good radiation practices in industry and research	Oxford, United Kingdom, 1998
Managing internal exposure	Munich, Germany, 1999
Management of occupational radiological and non-radiological risks: lessons to be learned	Antwerp, Belgium, 2000
Industrial radiography, improvements in radiation protection	Rome, Italy, 2001
Occupational exposure optimisation in the medical and radio- pharmaceutical sectors	Madrid, Spain, 2002
Decommissioning and site remediation	Arnhem, Netherlands, 2003
Occupational radiological protection control through inspection and self-assessment	Uppsala, Sweden, 2004
Occupational exposure to natural radiation	Augsburg, Germany, 2005
Experience and new developments in implementing ALARA in occupational, public and patient exposures	Prague, Czech Republic, 2006
ALARA in radioactive waste management	Athens, Greece, 2008
ALARA issues arising for safety and security of radiation sources and security screening devices	Vienna, Austria, 2009
ALARA and the medical sector	Oscarborg Fortress, Norway, 2011



Selection of the workshop topic EAN Steering group

- Decision for ALARA and the medical sector
 - increase in patient dose
 - associated increase of occupational exposure
 - the development of new technologies
 - the occurrence of serious incidents and accidents
 - initiatives such as the creation of the EMAN project
- The workshop will provide a scene setting on ALARA in the medical sector and will also provide practical examples from the field.



13th European ALARA Workshop





Discussion groups

- Dose optimisation for patient and staff
- Policies and tools to implement ALARA
- Education and training
- Technical developments and quality control



- Norwegian Radiation Protection Authority
- The program comittee
- IAEA
- European Society of Radiology (ESR)
- European Association of Nuclear Medicine (EANM)
- European Society of Therapeutic Radiology and Oncology (ESTRO)
- European Federation of Organisations of medical Phyics (EFOMP)
- European Federation of Radiographer Societies (EFRS)
- European Radiation Dosimetry Group (EURADOS)



Thank you and have a Successful Workshop