



EAN

The European ALARA Network

Welcome address to
European ALARA Network and EUTERP Workshop on Education and
Training in Radiation Protection: Improving ALARA culture

Dr. F.Vermeersch
Chairman EAN

***15th European ALARA Network Workshop and 5th
EUTERP Workshop Education and Training in Radiation
Protection: Improving ALARA Culture
Rovinj, Croatia, 7th-9th May 2014***

Rovinj May 7, 2014

<http://www.eu-alara.net/>



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, PHE and a group of European experts
 - EAN Administrative board (financial)
 - Chairman, vice-chairman, treasurer, secretary
 - EAN steering group (focus and 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, planned, existing and emergency situations



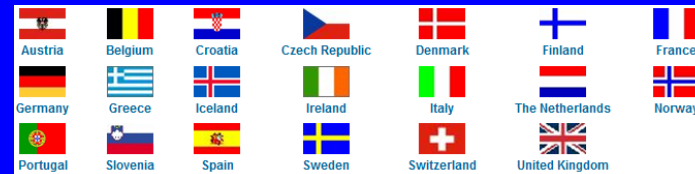
ALARA Network objectives

- Promote a wider and more uniform implementation of the ALARA principle for the management of worker, public and patient exposures in all exposure 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 and safety authorities
 - industrial companies and services
 - research institutions
 - Medical
 -
- 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)



Members of the Steering group

CEPN CEPN, France
www.cepn.asso.fr



HPA, UK
<http://www.hpa.org.uk>

FRANCE



French Nuclear Safety Authority (ASN)
<http://www.asn.fr>

GERMANY



Federal Ministry for the Environment, Nature Conservation and Nuclear Safety
<http://www.bmu.de>



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

GREECE



Greek Atomic Energy Commission (GAEC)
<http://www.gaec.gr>

IRELAND



Radiological Protection Institute of Ireland (RPII)
<http://www.rpii.ie>

NORWAY



Norwegian Radiation Protection Authority
<http://www.nrpa.no>

SPAIN



Consejo de Seguridad Nuclear (CSN)
<http://www.csn.es>

SWEDEN



Swedish Radiation Safety Authority (SSM)
<http://www.stralsakerhetsmyndigheten.se/Allmanhet/>

SWITZERLAND



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

BELGIUM



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



Belgonucleaire
<http://www.belgonucleaire.be>



IRE - National Institute for
Radioelements
<http://www.ire.be>

umicore



Federal Agency of Nuclear Control
<http://www.fanc.fgov.be>



Belgoprocess
<http://www.belgoprocess.be>



Belgian Association for Radiation Protection (BVS-ABR)
<http://www.bvsabr.be>

CROATIA



EKOTEH Dosimetry
<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>



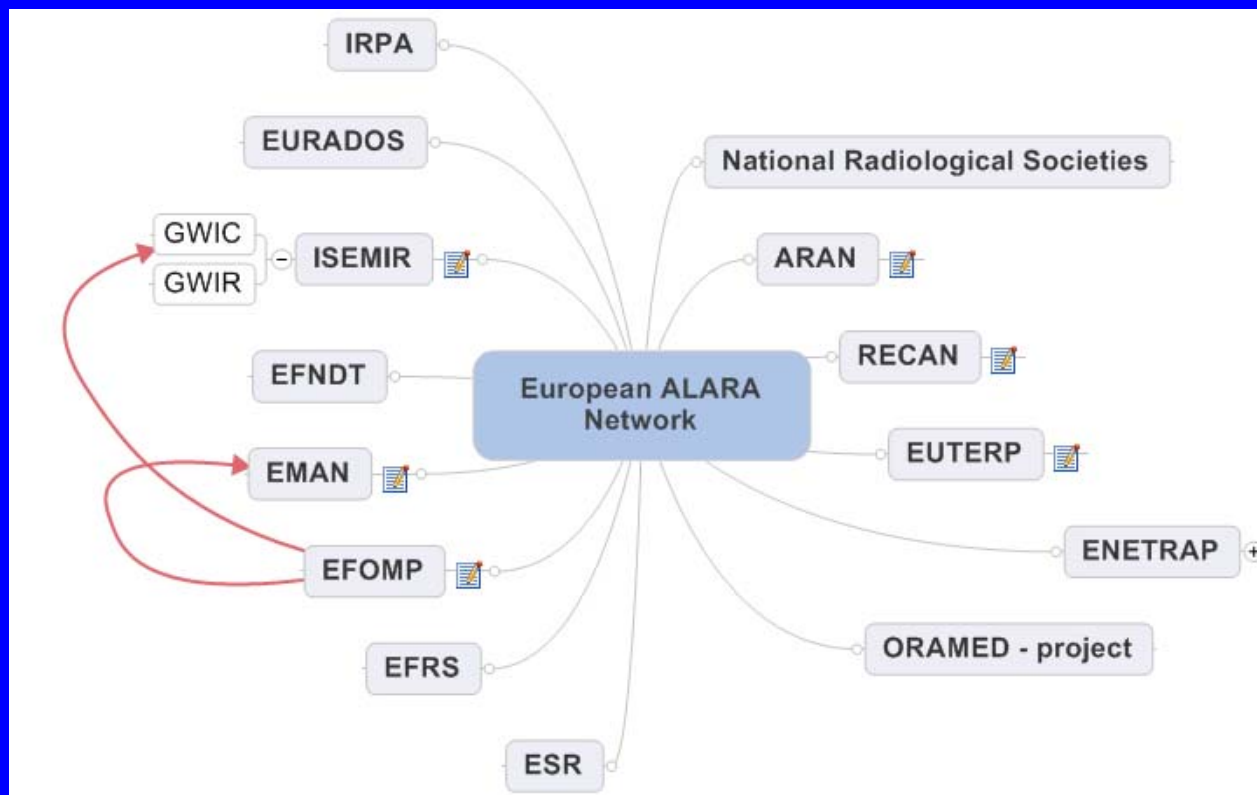
European
ALARA
Network

How does the network work

ACTIVITIES AND ACHIEVEMENTS



Contacts with other organisations Networking



Special Liaison
Organisation to
ICRP



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)

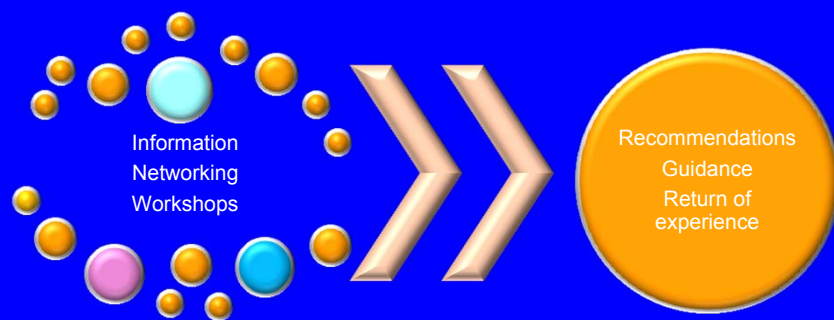


Surveys

- Different 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

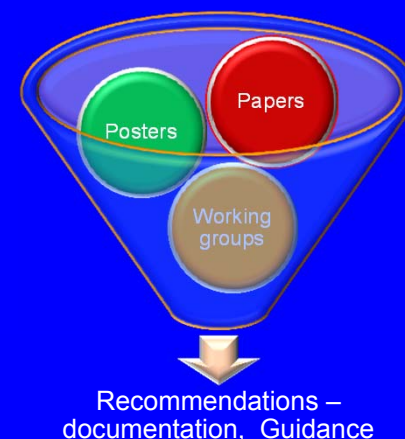
- EAN Workshops
- Support to European Surveys
- EAN working groups
- ALARA Newsletter
- EAN Website



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
16th EAN
workshop
Switzerland,
March 2016
on industrial
radiography and
non-destructive
testing

Workshops

1	ALARA and decommissioning	Saclay, France, 1997
2	Good radiation practices in industry and research	Oxford, United Kingdom, 1998
3	Managing internal exposure	Munich, Germany, 1999
4	Management of occupational radiological and non-radiological risks: lessons to be learned	Antwerp, Belgium, 2000
5	Industrial radiography, improvements in radiation protection	Rome, Italy, 2001
6	Occupational exposure optimisation in the medical and radio-pharmaceutical sectors	Madrid, Spain, 2002
7	Decommissioning and site remediation	Arnhem, Netherlands, 2003
8	Occupational radiological protection control through inspection and self-assessment	Uppsala, Sweden, 2004
9	Occupational exposure to natural radiation	Augsburg, Germany, 2005
10	Experience and new developments in implementing ALARA in occupational, public and patient exposures	Prague, Czech Republic, 2006
11	ALARA in radioactive waste management	Athens, Greece, 2008
12	ALARA issues arising for safety and security of radiation sources and security screening devices	Vienna, Austria, 2009
13	ALARA and the medical sector	Oscarborg Fortress, Norway, 2011
14	ALARA in existing exposure situations	Dublin, Ireland, 2012
15	Education and Training in Radiation Protection: Improving ALARA Culture	Rovinj, Croatia, 2014



Selection of the workshop topic

- Joined workshop EUTERP - EAN
 - *Education and Training in Radiation Protection: Improving ALARA Culture*
- The workshop will provide a scene setting and will elaborate on how to further improve education and training in RP and simulate ALARA culture



European
ALARA
Network

15th European ALARA Workshop

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

Education and Training in
Radiation Protection
Improving ALARA Culture

Welcome!

MGICOMG

Improving ALARA Culture



Topics to discuss in the working groups

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



Thanks to



The program committee

Annemarie Schmitt-Hannig (BFS)
Pascal Croüail, Caroline Schieber, Sylvain
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Richard Paynter (PHE)
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**Thank you and have a
Successful Workshop**