



European ALARA Network

# EAN

## The European ALARA Network

Welcome address to  
ALARA in existing exposure situations

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Chairman EAN

Dublin, September 4, 2012

ALARA in existing exposure situations

<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, 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

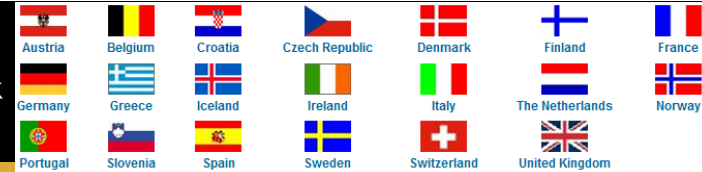
- Promote a wider and more uniform implementation of the ALARA principle for the management of worker, public and patient exposures in all situations,
- Provide a focus and a mechanism for the exchange and dissemination of information from practical ALARA experiences
- Identify and investigate topical 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)

## European ALARA Network



# Members of the Steering group

**CEPN** CEPN, France  
[www.cepn.asso.fr](http://www.cepn.asso.fr)

**Health Protection Agency** HPA, UK  
<http://www.hpa.org.uk>

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

**GERMANY**  
**BfE** Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit  
Federal Ministry for the Environment, Nature Conservation and Nuclear Safety  
<http://www.bmu.de>

**BFS** Bundesamt für Strahlenschutz  
Federal Office for Radiation Protection (BFS)  
<http://www.bfs.de>

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

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

**NORWAY**  
**Norwegian Radiation Protection Authority**  
**Statens strålevern**  
<http://www.nrpa.no>

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

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

**SWITZERLAND**  
**FOPH** Federal Office of Public Health (FOPH)  
**Swiss Federal Office of Public Health - Radioprotection Division**  
<http://www.str-rad.ch>

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

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

**IRE** Institut des radioéléments  
IRE - National Institute for Radioelements  
<http://www.ire.be>

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

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

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

**CROATIA**  
**EKOTEH DOZIMETRIJA D.O.O.** EKOTEH Dosimetry  
<http://www.ekoteh.hr>

**Ministry of Health and Social Care**  
**Website**

**CZECH REPUBLIC**  
**SÚJB** State Office for Nuclear Safety  
<http://www.sujb.cz>

**FINLAND**

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



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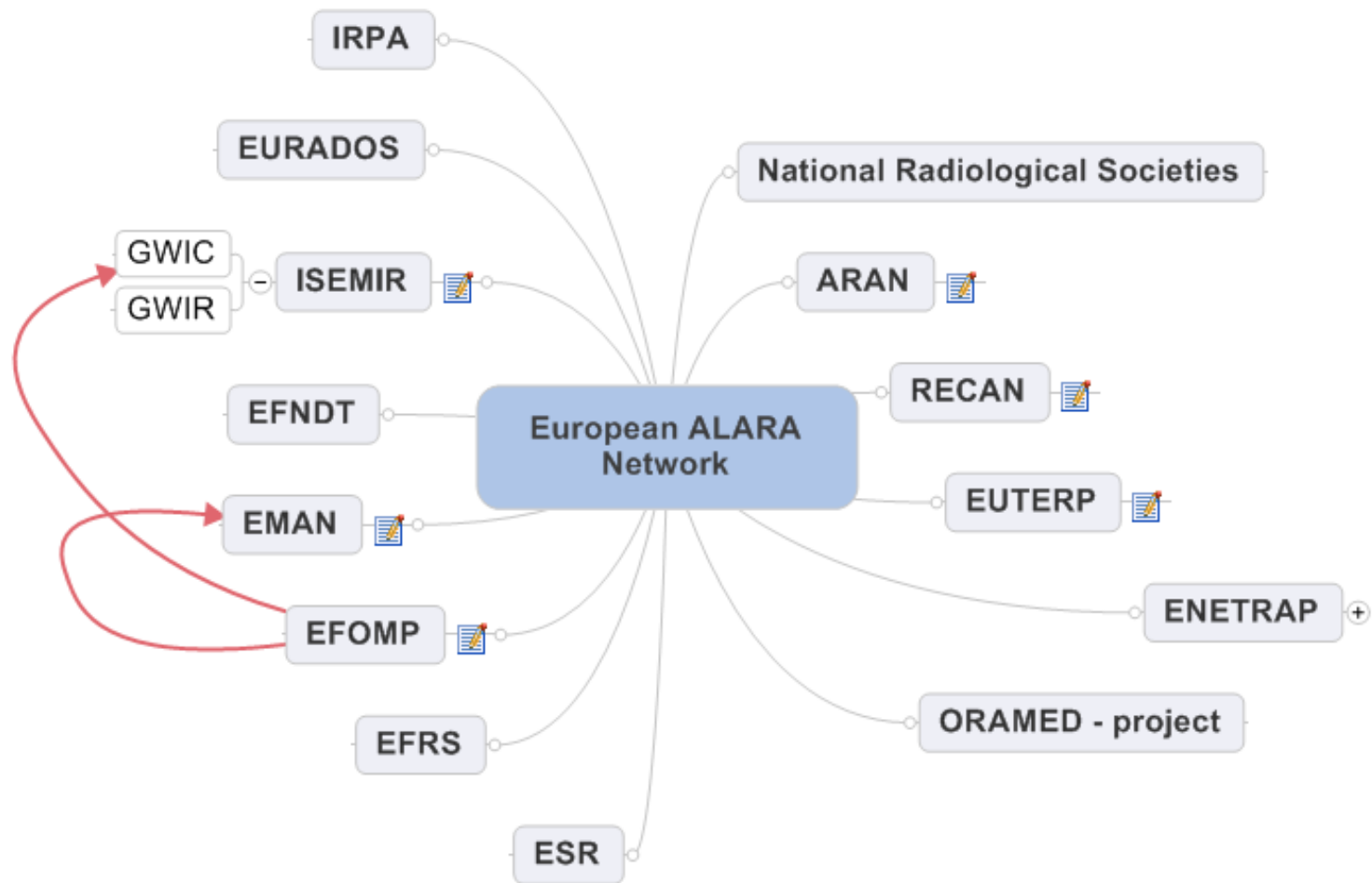
How does the network work

# ACTIVITIES AND ACHIEVEMENTS



## European ALARA Network

### Contacts with other organisations Networking





## 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)

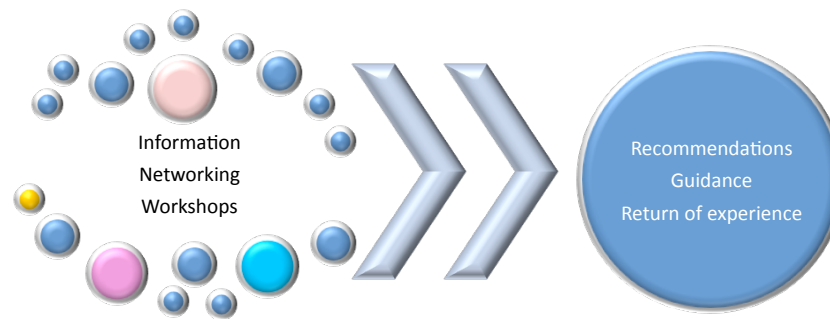
## Another way of gathering information Surveys

- 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)



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# EAN Activities and outputs



Input

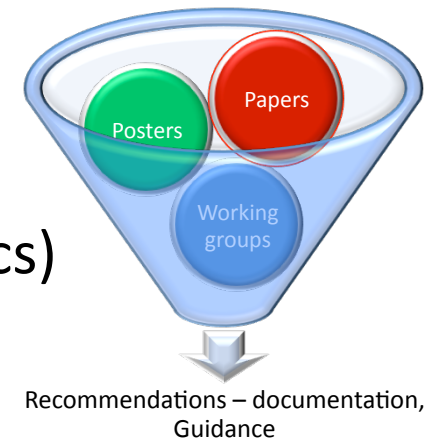
output

- 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





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# Workshops

***In preparation  
ALARA Culture  
Croatia,  
2014***



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



European ALARA Network

# 14<sup>th</sup> European ALARA Workshop

14th European ALARA Network Workshop



Radiological Protection Institute of Ireland  
An Institiúid Éireannach um Chosaint Radheolaíoch

## ALARA in Existing Exposure Situations

Dublin, Ireland | 4 – 6 September 2012

SECOND ANNOUNCEMENT



European ALARA Network

# Selection of the workshop topic

- Decision of the EAN steering group
- ALARA in existing exposure situations
  - Brainstorming 2009: *There are now new challenges in radiation protection, especially in the medical and industrial fields (such as NDT and NORMs) and in the management of existing exposures.*
  - *ICRP 103 and BSS → reference to EE*
    - *Radon, NORM, cosmic radiation, past activities, post-accident*
  - *Implementing ALARA in practice*
- The workshop will provide a scene setting on ALARA in existing exposure situations and will also provide practical examples from the field.

## Discussion groups

- **ALARA challenges and practicalities at the national and regional level**
- **Considerations in choosing dose reference levels**
- **Economic and technical factors, and endpoints of optimisation**
- **Societal factors and stakeholder engagement**





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## Thanks to

- Radiological Protection Institute of Ireland
- The program committee



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**Thank you and have a  
Successful Workshop**