



European
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The European ALARA Network Review of 5th EAN Workshop

Welcome address to
European ALARA Network workshop
ALARA in industrial radiography:
How can it be improved?

Dr. F.Vermeersch
Chairman EAN

Bern, March 14, 2016

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

16th European ALARA Network Workshop
Berne, Switzerland, 14 – 16 March 2016
ALARA in industrial radiography:
How can it be improved?



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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
- 2005
 - Evolution to a self supporting network
 - EAN a legal entity, non-profit organisation under French law
 - Coordination CEPN, PHE and a group of European experts
- Evolution from 8 to 20 countries since 1996



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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 practical implementation of ALARA



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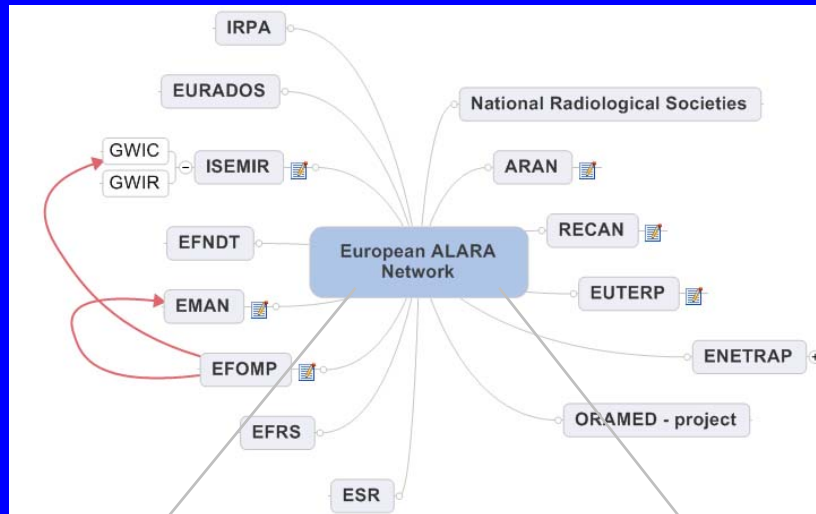
How does the network work

ACTIVITIES AND ACHIEVEMENTS



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Contacts with other organisations Networking



Medical field

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

Industry

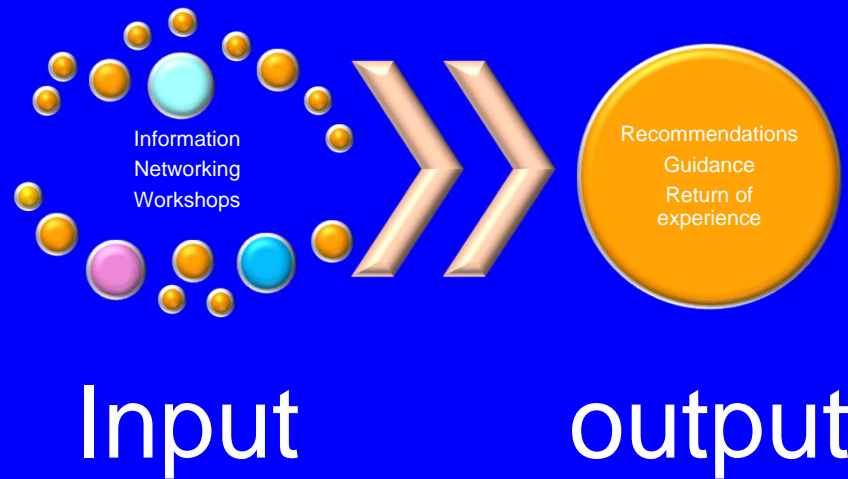
EFNDT – European Federation for Non-Destructive Testing

Special Liaison Organisation to ICRP

Possible committee 4 working group on NDT



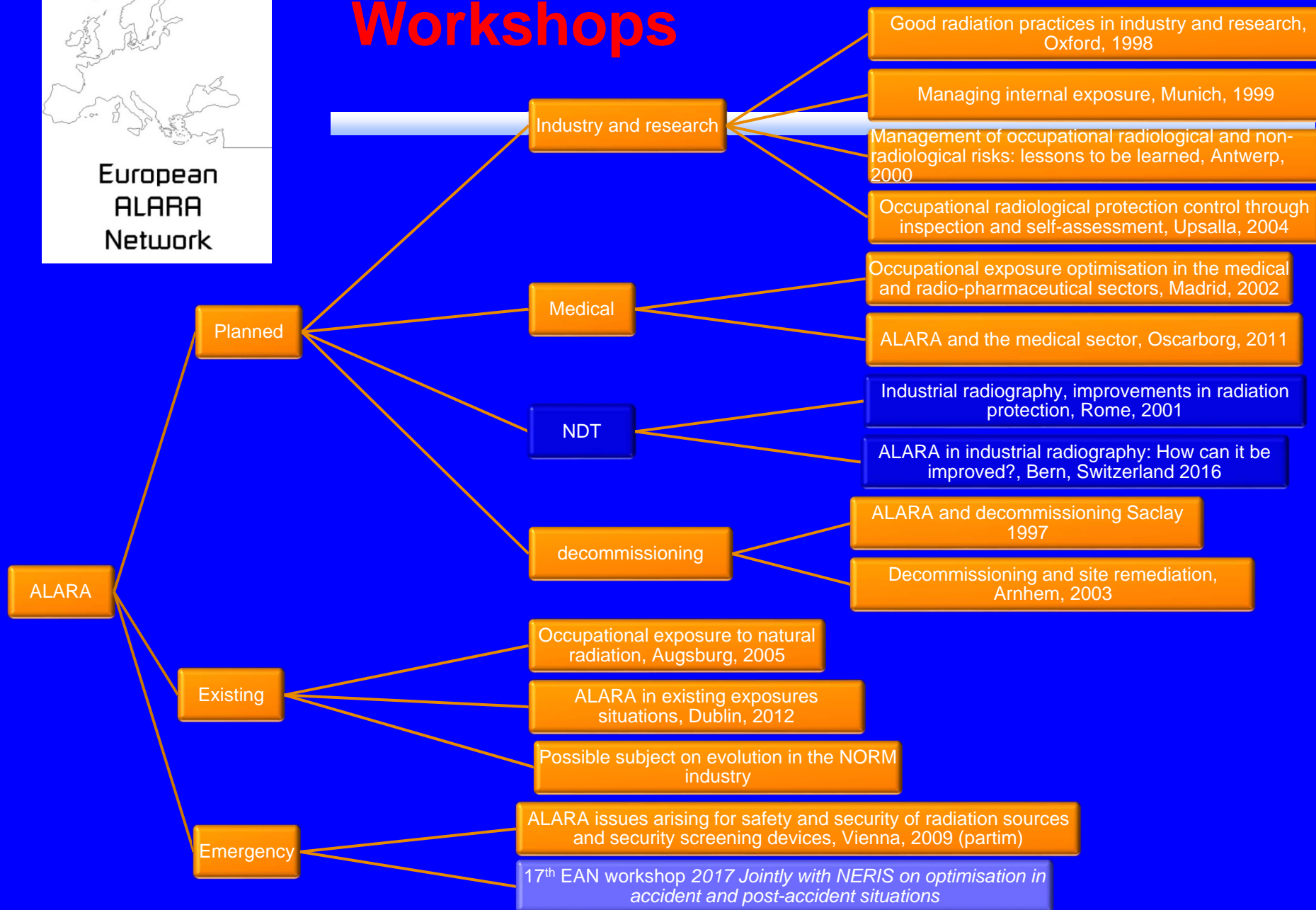
EAN Activities and outputs



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



Workshops





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Review of 5th EAN Workshop

5th EUROPEAN ALARA
NETWORK WORKSHOP on



Industrial
Radiography:
Improvements
in Radiation
Protection

Rome - Italy
Palazzo Rospigliosi
October 17 - 19, 2001

CEPN ANPA
Italian Environmental
Protection Agency

Sponsored by the European Commission "Radiation Protection"

- 5th EAN workshop, 2001, specifically considered ALARA in industrial radiography.
 - Working group recommendations



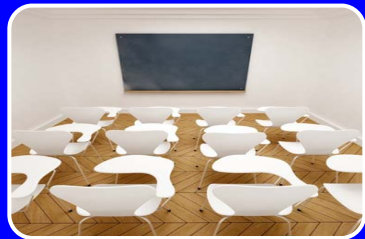
Working Group Issues – Equipment

- Manufacturers need to liaise closely with users and regulators to ensure that designs are optimised
- There is a need for an active detection system integral to gamma radiography source containers to indicate when the source is not fully retracted.
 - This will not be easy, but the potential benefits are large.
- The NDT industry is very competitive: NDT companies may not invest unless there are commercial incentives from Clients as well as supporting regulatory pressures.



Working Group Issues - Accidents

- Incident reporting needs to be encouraged to ensure that lessons are learnt.
 - This requires an effective reporting and feedback mechanism that protect the anonymity of persons and organisations
- Where serious accidents occur, detailed investigations to identify the underlying causes should be encouraged.
- A unified categorisation system should be developed
- Make feedback available in the local language
- In addition, there is a need to learn from good practices. The EAN newsletter provides one means of doing this but there is scope for more

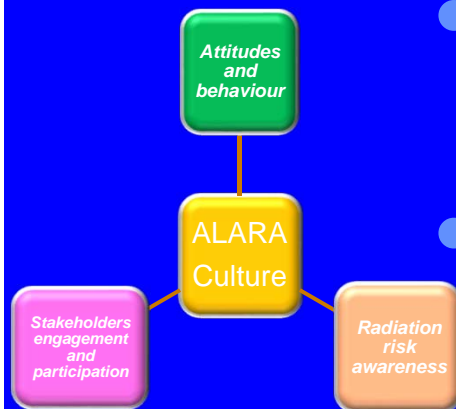


Working Group Issues - Training

- There is a case for harmonised standards of training for industrial radiographers and supervisors within Europe
 - This should include periodic refresher training
- Accreditation or certification should be introduced, for
 - Radiographers and supervisors
 - Trainers and Training Centres
- Incident feedback should be a part of the training
- Training should include practical exercises, such as source recovery



Working Group Issues – Safety Culture

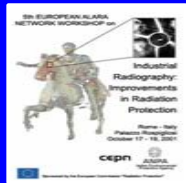


- There is a need to encourage better work planning and dose management
- Regulatory bodies can influence safety culture and they must have (and use) appropriate enforcement powers
- Licensing of radiography companies should include requirements for radiographer training
- Clients are potentially very influential on the standard of radiological safety. There is a need to raise their awareness and to also remind them of their responsibilities for safety during industrial radiography



16th European ALARA Network Workshop

Working group topics



2001

5th Workshop Recommendations

- Equipment
- Accidents
- Training
- Safety culture



2001 - 2016

Meanwhile

- Industrial radiography has remained an area of concern
 - Levels of radiation exposure received
 - The number and magnitude of accidental exposures
- Equipment
 - Some significant developments in gamma radiography equipment
- Accidents
 - OTHEA website
- Training?
- Safety Culture?



2016

16th Workshop

- How did we progress and what can we improve
 - Radiography equipment
 - Learning from radiography accidents
 - Training and safety culture
 - The ALARA process in radiography



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WELCOME



Thanks to



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Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Office of Public Health



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**Thank you and have a
Successful Workshop**