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# ICRP main commission session discussion with organisations in formal relations with ICRP

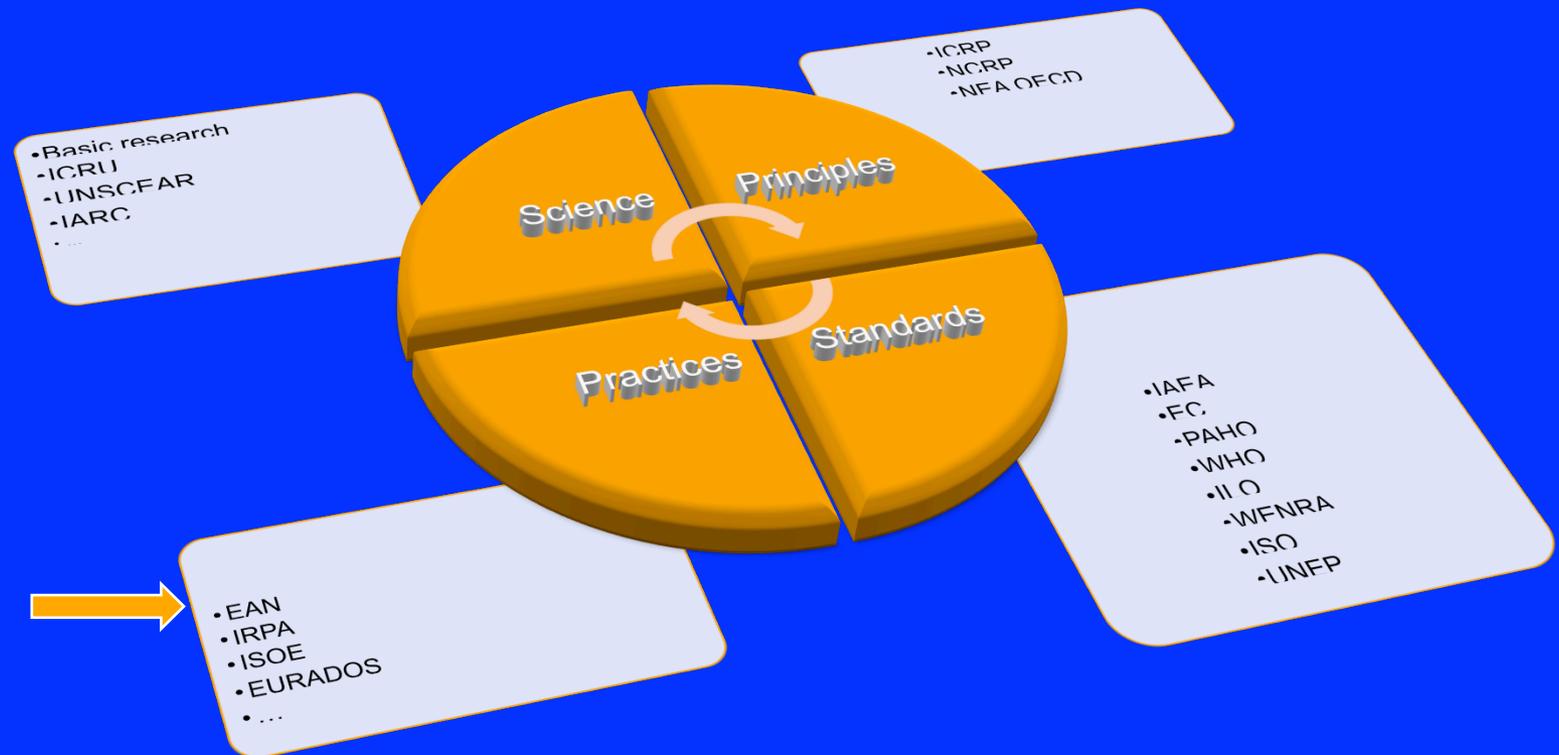
## Contribution of the European ALARA Network

Fernand VERMEERSCH

# Position of EAN in the Radiological Protection System



## Pilars of RP



Looking at the practical implementation of ALARA and optimisation

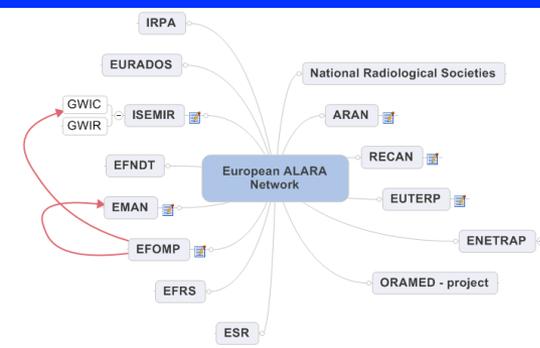


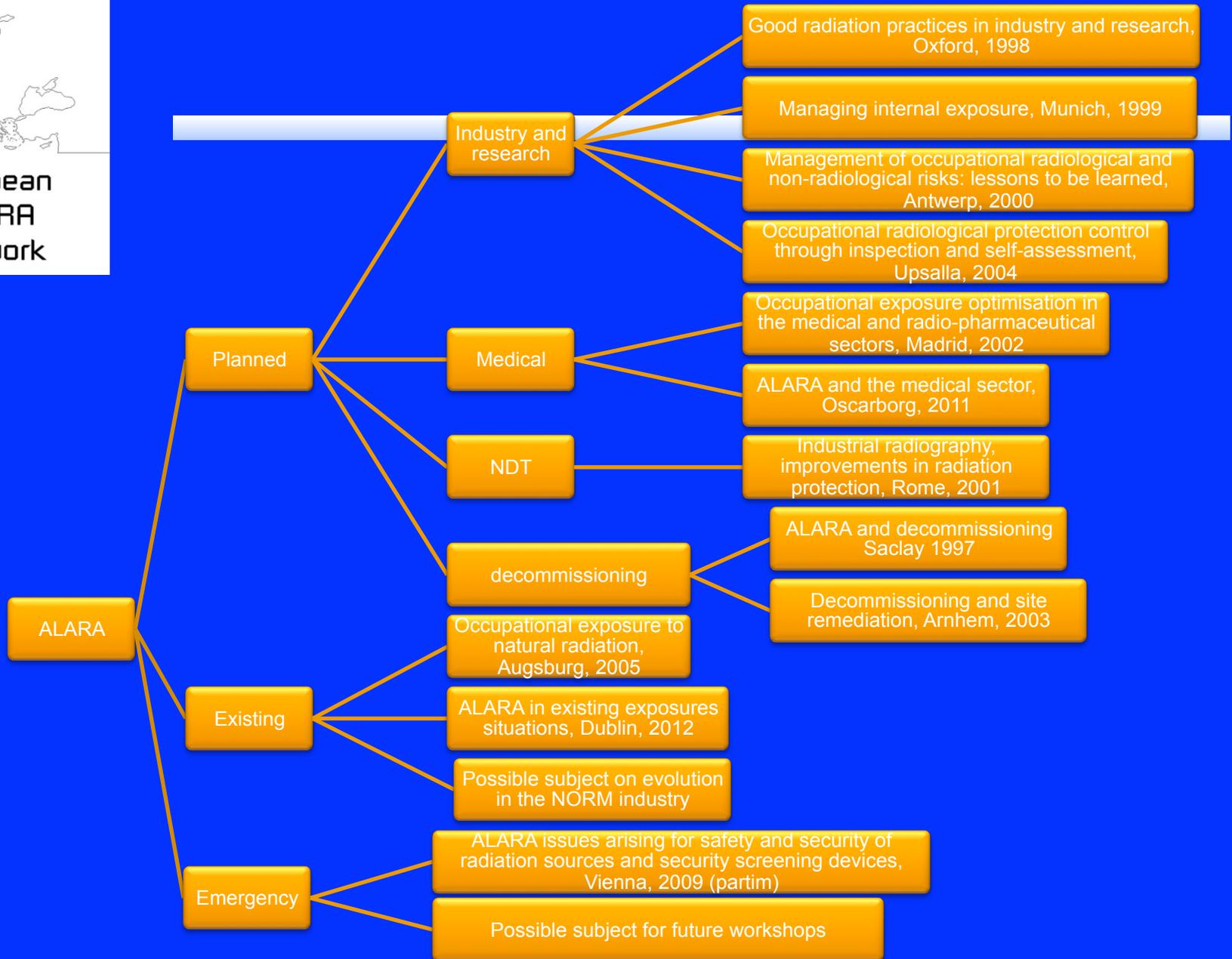
## European ALARA Network

- European ALARA Network (EAN),
  - foster specific European research on topics dealing with optimization of radiation protection
  - facilitate the dissemination of good ALARA practices within European industry, research and medical sectors.
- Objectives
  - Promote a wider and more uniform implementation of the ALARA or optimisation 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.



- Provide advice on the practical implementation of ALARA in the radiation protection field
- Through
  - Networking with different RP and professional organisations in Europe
  - Liaison IAEA and EC
  - Liaison to ICRP
  - Interface with the regulatory requirements
  - Acting as a platform for gathering and processing information regarding optimisation in all exposure situations
- Organising Workshops on ALARA in different exposure situations (planned, emergency and existing)





# Workshops

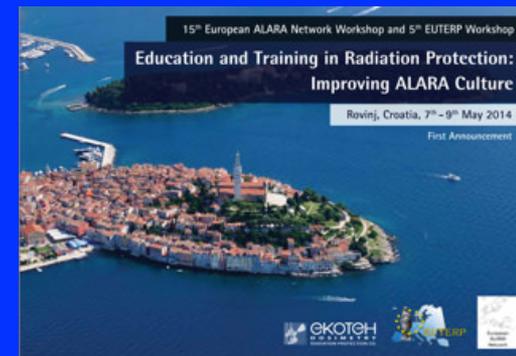


|   |                                  |
|---|----------------------------------|
| ALARA and decommissioning   | Saclay, France, 1997             |
| Good radiation practices in industry and research   | Oxford, United Kingdom, 1998     |
| Managing internal exposure  | Munich, Germany, 1999            |
| 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 |
| ALARA in existing exposures situations  | Dublin, Ireland, 2012            |
| Education an training in radiation protection, improving ALARA culture                              | Croatia, 2014                    |





- Cooperate in the field of education and training with regard to the practical implementation of RP and dose optimisation and ALARA culture
  - Network with different organisations
  - ALARA Book (examples of optimisation)
  - ALARA Workshops regarding different exposure situations
  - Development of course content for RP and optimisation training

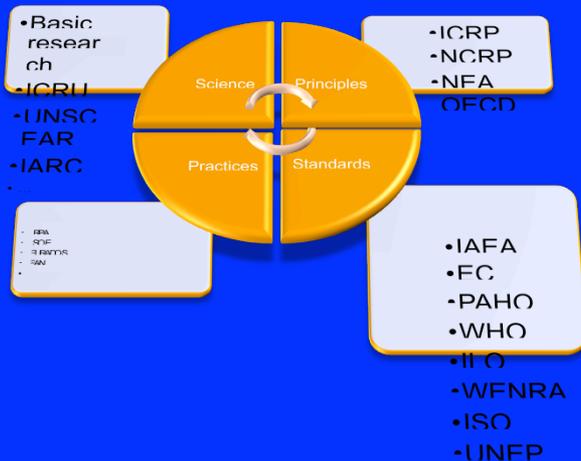


# Issues of mutual interest and future collaboration



We are ready to play our part

- In identifying issues in the practical implementation of optimisation
- Giving feedback to the commission on the practical implementation of the recommendations
- The following topics deserve further attention
  - Further optimisation in Industrial radiography (NDT),
  - Further optimisation in the medical field,
  - Optimisation issues after incidents/accidents
  - Optimising public exposure





## Direct feedback during the meeting

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- Some members of the main commission showed an interest in the further optimisation in Industrial radiography (NDT) and its further evolution.
- No direct comments were made to the other topics for further attention directly after the presentation



## The other organisations

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- ENISS
  - Representing the nuclear utilities and operating companies
  - Interest in the optimisation
  - Tolerability of risk
  - Optimising the environmental impact
  - Are there cut off criteria that can be used



## The other organisations

- **NERIS**
  - European platform on preparedness for nuclear and radiological emergency response and recovery
  - Optimization issues regarding emergency and post-accident situations
  - Decision support in optimisation
  - A multi risk approach with a broad spectrum of stakeholders
- **HERCA**
  - Heads of the European Radiological protection competent authorities
  - Looks at the practical implementation of RP
  - Interest in optimization in veterinary applications



## The other organisations

- ILO
  - International Labour Organisation
  - Looks at occupational RP
  - The workplace a multi-risk environment
  - A revision of the ILO convention is in preparation
- IRPA
  - International Radiation Protection Association
  - Looks at practical implementation
  - Feedback from the RP professionals
  - Public perception of the radiation risk, understanding risk
  - What is the influence on the practical RP of the new recommendations (example the eye lens dose limit)



## The other organisations

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- CRPPH (NEA)
  - Committee on radiation protection and public health
  - How will we protect
  - What will the protection be understood or perceived ?
  - Resources are limited how to organize the protection
- WHO
  - Broad definition of health
  - How to protect the public
    - Environmental
    - NORM
  - Multi-risk approach
  - RR versus other R



## The other organisations

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- WNA
  - World Nuclear Association
  - Importance of the social and economic dimension
  - How to handle risk in general
  - Compare with other risks (ex. Fine dust)
  - A stable and transparent protection scheme is needed
  - Dialogue and risk awareness of the public
  - A holistic approach to risk



## General discussion

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- During the discussion it also became clear that there is a need for a document describing the full radiation protection system in plain language, based on the existing ICRP publications.
- The existing ICRP documents tend to be somewhat complicated, a translation for the practical application would be welcomed.



## Future collaboration

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- The ICRP will look on how we can best collaborate in the future
  - ICRP was interested in the work on NDT
- Possible links with other organisations
  - NERIS
    - Optimisation in emergency response and recovery
- Another theme closely linked with the aspect of optimisation is the tolerability of risk a subject that is further treated in a task group of Committee 4.



European  
ALARA  
Network

We were there





European  
ALARA  
Network

# Some impressions





- **OPERRA**
- Participation to the meeting of OPERRA in October 2013
- Presentation of the EAN en its activities
- Practical implementation of ALARA
  - Feedback from the practice,
  - Question raised for further research in the different platforms involved
- What can EAN do in OPERRA
  - EAN can improve practical implementation of ALARA and contribute to ALARA culture
  - share information from the practical implementation and feedback lessons learned, disseminate OPERRA results in the ALARA community
  - Ask Annemarie on the update