

EAN WORKSHOP No. 17

ALARA IN EMERGENCY EXPOSURES SITUATIONS

MONDAY 15th MAY

- SESSION 1: **Setting the Scene : The challenges posed by the optimisation of exposure in emergency and post accident situations** 3/5
 - SESSION 2: **Overview of emergency preparedness in Europe** 4/6
 - SESSION 3: **Emergency and response management [Part 1]** 4/5
 - **Working Group [Part 1]** -
-

TUESDAY 16th MAY

- SESSION 3: **Emergency and response management [Part 2]** 5/5
 - SESSION 4: **The post-accident phase - management of radiological consequences** 7/7
 - **Working Group [Part 2]** -
-

Social event + gala dinner ?

WEDNESDAY 17th MAY

- SESSION 5: **Conclusions and recommendations** -
-

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1/ Can the ALARA principle be fully apply in EmES for the members of the public?

- What are the main component of ALARA and influencing factors?
- When and how to evacuate?
- Optimisation of pathways? ...

2/ Can the ALARA principle be fully apply in EmES for the occupational exposed individuals?

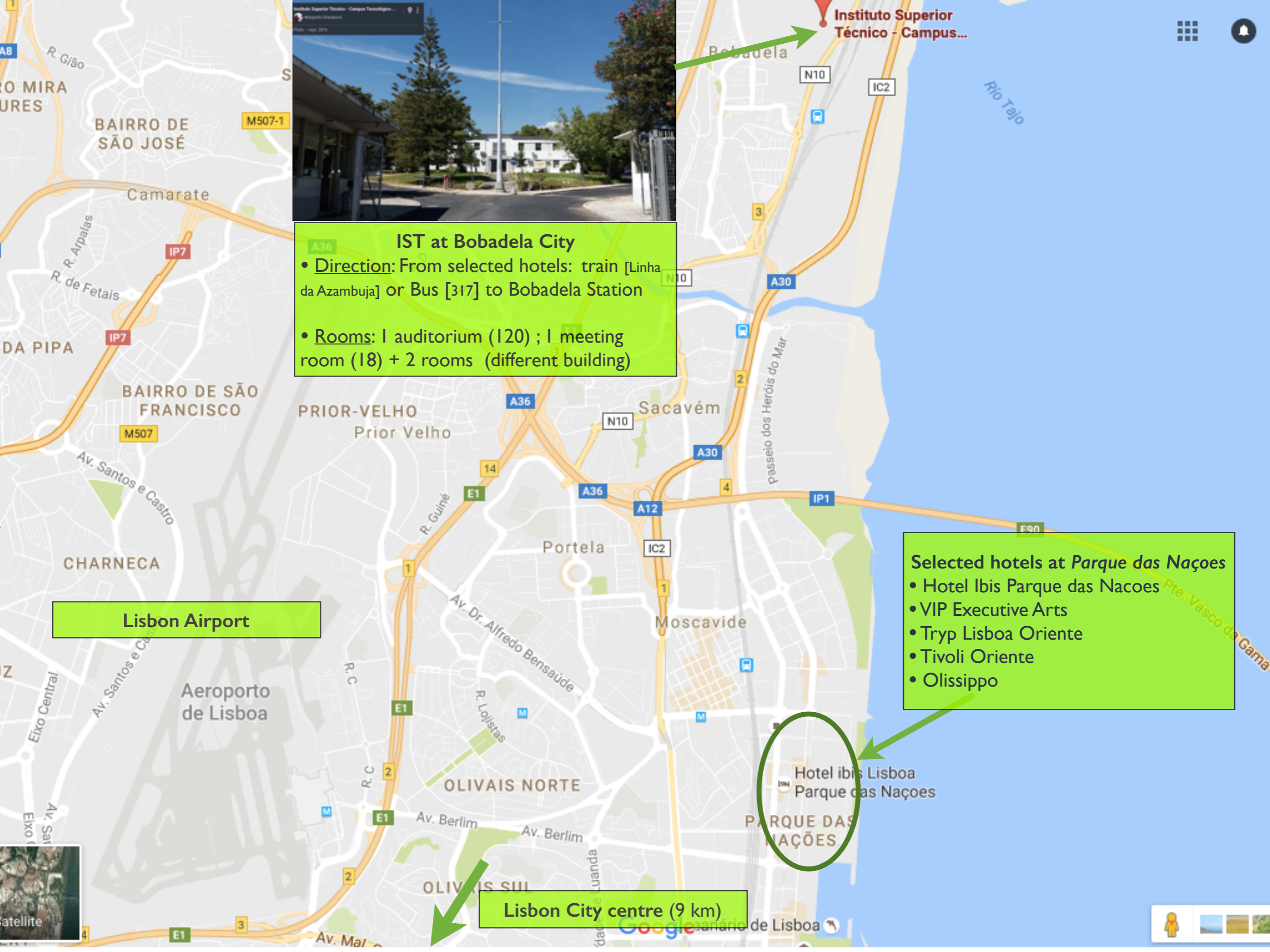
- What are the main component of ALARA and influencing factors?
- Low dose for many or high dose for a few?
- How do you know that doses are ALARA?
- Management of waste? ...

3/ Predict the unpredictable. How to ensure the emergency plans are optimal from a radiation protection point of view? How to react if the situation goes beyond the prediction?

- Challenges posed by ALARA in planning vs. ALARA following an accident
- How to react if the situation goes beyond the prediction (especially when time is limited)? ...

4/ Are new technologies (modelization, robots, ...) an asset or a gadget for ALARA in EES?

- Areas when new technologies can be of use?
- Is there any decisive technology? ...



IST at Bobadela City

- Direction: From selected hotels: train [Linha da Azambuja] or Bus [317] to Bobadela Station
- Rooms: 1 auditorium (120) ; 1 meeting room (18) + 2 rooms (different building)

Selected hotels at Parque das Nações

- Hotel Ibis Parque das Nacoes
- VIP Executive Arts
- Tryp Lisboa Oriente
- Tivoli Oriente
- Olissippo

Lisbon Airport

Lisbon City centre (9 km)

Hotel ibis Lisboa Parque das Nações



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Registration Fees

Fees cover workshop participation costs, lunches and coffee breaks.

EAN 17th Workshop (joint with NERIS) (15-17 May):

- > 250 €/participant
- > 200 € for EAN and NERIS Members
- > Technical exhibitors are welcome to the workshop. Exhibition will be displayed in the main hall of the building. The registration fee is 250 €/participant.

The same fees for **NERIS 3rd Workshop** (17-19 May, same location)

One registration link (to be broadcast !)

[http://www.planetreg.com/
EANworkshop17NERISworkshop3](http://www.planetreg.com/EANworkshop17NERISworkshop3)



> Access to EAN Newsletter n°38

Dear readers,

The European ALARA Network is very happy to announce its 20th anniversary! EAN has performed lot of work and also evolved since its birth. Annemarie Schmitt-Hanning (BRS), one of the 'Founding Fathers' of the EAN provides a summary of this in the Editorial.



Following the last EAN workshop, this issue has something of a focus on industrial radiography.

You will find one article analysing radiography incidents in France (p. 2) and another describing a new gamma radiography device using selenium-75 (p. 4).

On page 6 M. Purschke presents us with the role of the European Federation of Non-Destructive Testing (EFNDT) in radiation protection, and on page 7 ENETRAP II considers the requirements on education and training in radiography.



The forthcoming 17th EAN workshop (organized in collaboration with NERIS) will deal with ALARA in Emergency Exposure Situations. It is planned from 15-17 May 2017 at IST, near Lisbon, Portugal. Note that NERIS 3rd Workshop will follow (17-19 May) and will be held at the same location. The common registration website is :

<http://www.planetReg.com/EANworkshop17NERISworkshop3>



When it comes to the medical field,

it appears that the practices on the use of thyroid shielding in dental radiography described in the last EAN Newsletter are not commonly shared. So EAN initiate a survey on radiation protection practices in dental radiography - if you can answer it, please do!

There is also an article from the UK (page 13) on radiation protection of a novel radiotherapy system for the treatment of age-related macular degeneration.



EAN may be 20 years old,

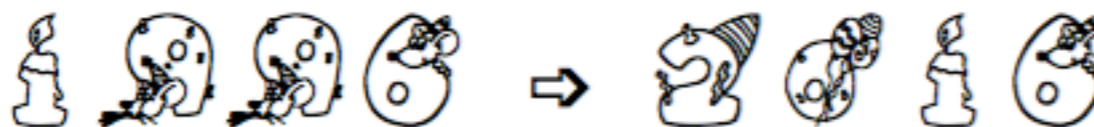
but we hope it is still young at heart: nevertheless, we feel that it is time for a facelift (not surgical). As part of this, we intend to modernize our logo and launch a contest: if you have designers skills or are imaginative, please send your proposed logo to the Editorial Board. The winner will receive an ALARA prize (to be decided).

The EAN Newsletter Editorial Board

European ALARA Network NEWSLETTER

38th ISSUE • OCTOBER 2016

Significant Radiological Events in France during 2014 in Industrial Radiography Page 2	The γ -PROX® Concept Page 4	The Role of EFNDT in Radiation Protection Page 6	ENETRAPII- Implications for Industrial Radiography Page 7	Radiation Protection of a novel Radiotherapy System for the Treatment of Age-Related Macular Degeneration Page 13	On the Use of Thyroid Shielding in Dental Radiography An Answer and a Survey page 18	EAN Activities Page 21	ALARA News page 22 FAQ ALARA page 23 Contacts page 24
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20 years of EAN Congratulations!

development by exchanging experience and increasing networking activities.

One of the fundamental principles in radiation protection is the optimisation of protection. Implementation of the optimisation of protection into practice is supported by the ALARA principle, requiring that radiation exposures be kept "As Low As Reasonably Achievable" when using ionising radiation.

Practical implementation and further development of the ALARA principle has been achieved by the successful cooperation of a number of experts with different professional backgrounds representing a large number of European organisations. These pioneers established the European ALARA Network 20 years ago with the support of the European Commission, and then, since 2005 as an independent association. In the last few years, a number of younger experts joined, enthusiastically supporting the activities of the network itself and contributing to its further

The range of EAN activities, such as regular ALARA workshops, newsletters, sub-networks, European surveys, lessons-learned from incidents, etc., has been gradually extended over the last 20 years from optimisation of occupational radiation protection in industry and research, to occupational radiation protection in medicine and in NORM industries, and further on to the optimisation of radiation protection of patients and the general public. The focus of EAN is now very much on ALARA across all three ICRP exposure situations: planned, existing and emergency.

EAN has always placed a high priority on sharing experience and the practical implementation of ALARA in all sectors where ionising radiation is applied. You are interested in optimisation of radiation protection? We cordially invite you to join EAN activities. None of us is as smart as all of us!

Annemarie Schmitt-Hanning



The EAN Newsletter is distributed free of charge by the European ALARA Network. Do not hesitate to distribute it to organizations or colleagues that might be interested. Subscription: <http://eepuf.com/b-2mD> or e-mail to sylvain.andresz@cepn.asso.fr

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- Using a mailing list service (MailChimp) to send the last EAN Newsletter
- Starting point: the 'EAN mailing list' (500 subscribers)
 - 3 (open) days after sending : > 300 openings
 - 10 days : > 600 openings
 - 7/11/2016 : **1,112** openings
- (kind) Feedbacks have been received from Directorate of Nuclear Power Safety, Brazil (ARN), Canada (Ontario Power Generation Co.), China (China Institute of Nuclear Energy)
- Introduction of an electronic subscribing method : + 5 subscribers

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Top locations by opens

 United Kingdom	326	34.3%
 France	118	12.4%
 Norway	95	10.0%
 Germany	58	6.1%
 Austria	52	5.5%



• N.B. An inquiry to EAN Members about the diffusion did not receive many feedbacks (!)

EAN (NEXT) NEWSLETTERS

- **EAN Newsletter 39** : (very) Potentially:

- 1 article from General Electric Healthcare (GE DoseWatch system to set diagnostic reference values)
- 1 article from a EAN survey which is on-going (RP practices in dental radiography)

- and ???? (cf. Minutes of former EAN Steering Groups)

- ¹ Application of the ALARA principle in a research centre **Action: F. Vermeersch**.
- An article related to the new approach in the management of NORM/building material in Italy. **Action: C. Nuccetelli**.
- A description of the Radium Action Plan in Switzerland (former clock industry using luminescent painting). **Action: N. Stritt**.
- An article on the optimization of the Zagreb waste facility dedicated to radioactive sources. **Action: M. Novakovic**. Parts of the subject are confidential but the article can be focused on the application of the optimization principle in this situation and the actions engaged.
- As it is a first-of-its-kind, EPA can provide a description of its Radon National Plan **Action: H. Synnott**.
- The Spanish recommendations on the management of pregnant workers at hospital are under review and the results can be later published in the EAN Newsletter **Action: A. Mulas-Perez**.
- An article describing an over-exposure accident involving a non-destructing device. **Action: D. Zontar**.
- Application of the ALARA principle at the Austrian Hadron Therapy Centre. **Action: A. Hefner**.

- **EAN Newsletter 40**

- Conclusion & recommendation of EAN workshop 17
- Papers from EAN workshop 17 (notably NERIS paper)

EAN LOGO CONTEST (as 7/11/2016)

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