

Venue and Fee

The workshop will take place at the

AUSTRIAN STANDARDS INSTITUTE

Heinestrasse 38
A – 1020 VIENNA
AUSTRIA



www.on-norm.at

Public transport is a convenient means to reach our premises: Municipal railway (Schnellbahn) or underground line 1 (U1) and underground line 2 (U2): station Wien Nord/Praterstern - exit Heinestrasse Tramway lines O and 5: station Praterstern

Starting on the morning of Wednesday 21 October and finishing on the afternoon of Friday 23 October 2009.

The attendance fee will be 400 €.

Participants should register. Due to the limit on the number of participants, not all applications may be successful, depending on the demand. Successful registrants will be notified and they will be provided with more information about the Working Groups and the invoice of the registration fee. Only after the payment the registration is complete.

Accommodation

Please arrange your own accommodation according to personal preference. The following websites may help:

www.hotels.at
www.booking.com

www.hrs.de
www.wien.info

Hotels near to the meeting place
(in Lassallestrasse and Praterstrasse, 1020 Vienna)

- Hotel Am Augarten
- City Hotel Tabor
- Hotel IBIS Wien Messe
- Hotel Wilhelmshof
- All you need Hotel Vienna 2
- Hotel Stefanie
- Best Western City Central
- Hotel Mercure Imlauer Nestroy
- Hotel Resonanz Vienna
- Hotel Kunsthof
- Hotel Cristall
- Hotel Capri
- Austria Trend Hotel Lassalle
- Austria Classic Hotel Wien
- Hotel Mercure Wien City

Contact

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2444 Seibersdorf, Austria

Seibersdorf Labor GmbH
Radiation Safety and Applications
2444 Seibersdorf, Austria

Details and further information about the Workshop can be found at:

www.alara2009.at



12th European ALARA Network Workshop:

„ALARA Issue arising for Safety and Security of Radiation Sources and Security Screening Devices“

Vienna, Austria
21-23 October 2009



AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY
TOMORROW TODAY

**SEIBERSDORF
LABORATORIES**

Background & Objectives

Radiation protection has always included security-related provisions, for example measures to prevent the unauthorised use and illegal transfer of sources, which have contributed to the overall system of radiation safety. In recent years, however, interest in security issues has dramatically increased and the challenge is to ensure that safety and security measures are designed and implemented in an integrated manner so that security measures do not compromise safety and safety measures do not compromise security.

The aim of the workshop is to consider how the implementation of ALARA, in terms of planned and emergency exposure situations, involving worker and public doses, is affected by the introduction of these new security-related measures. In the case of new equipment and procedures, there is also the question of whether exposures arising from security screening devices can be justified. In addressing these issues, the workshop aims to consider how an optimum balance between protection, safety and security can be achieved.

As with previous workshops, this workshop will consist of invited presentations intended to highlight the main issues, and a significant part of the programme will be devoted to discussions within working groups. From these discussions, participants will be expected to produce recommendations on ALARA in protection, safety and security, addressed to relevant local, national and international stakeholders.

Target Audience

The workshop should be of interest to a variety of stakeholders including employers, regulatory bodies, providers of security devices, research and other organisations with an interest in the combined issues of safety and security. The number of participants will be restricted to a maximum of 90.

Scope of the Workshop

The workshop programme includes the following subjects:

- **Introduction and scene setting:**
IAEA initiatives on the Safety and Security of Radiation Sources; EU HASS Directive; ICRP Publications 96, 101 and 103; international initiatives since 9/11; and how each of these addresses the ALARA principle.
- **Safety and security measures:**
Proportionality and balance in safety and security, national regulatory programmes; and practical examples of ALARA in the implementation of security measures in different sectors and practices.
- **Planned exposure situations:**
Exposures arising from the implementation of security measures (workers, security personnel, public); training of security personnel and other peripheral workers; and practical examples of planned recovery operations.
- **Emergency situation management (especially due to malevolent acts):**
National strategies and cross-boundary effects; exposure and training of first responders; estimation and control of public doses; and feedback from incidents and lessons learned.
- **Justification and optimisation in the use of security screening devices:**
X-ray screening of passengers and other persons; the scanning and inspection of vehicles and containers; and fixed and portable baggage inspection systems.

Registration to

12th European ALARA Network Workshop
21-23 October 2009, Vienna, Austria

<http://www.alara2009.at>

online registration preferred
or send by FAX: +43 50550 2533

Registration Fee: EUR 400,- per Person
(incl. workshop documents, refreshments/coffee during the breaks, lunch, conference dinner)

Mrs. Mr.

Surname:

First name(s):

Title:

Institution:

Department:

Address:

Postal code / City:

Country:

Phone:

Fax:

E-mail:

Working group registration: (see Topics)

first choice 1 2 3 4

second choice..... 1 2 3 4

Social programme (free of charge): 22.10.

.....
Place and date

.....
Signature and stamp

By submitting this registration form you agree to participate at the 12th European ALARA Network Meeting in October 2009 in Vienna. Due to the limit on the number of participants, not all applications may be successful, depending on the demand. Successful registrants will be notified and they will be provided with more information about the Working Groups and the invoice of the registration fee. Only after the payment the registration is complete.

Topics

Working Group Topics and Questions

1. Implementation of the Code of Conduct and HASS – ensuring ALARA

- How far have the IAEA Code of Conduct and HASS been implemented?
- What feedback is there? For example, what improvements to security and safety have been achieved? (and how have these been demonstrated?)
- In which sectors have there been problems with implementation?
- What further improvements might be made?
- Are existing controls on the import/export of sources (legal or illicit) effective? What should be done at borders/monitoring stations to ensure that doses to persons are optimised?

2. Balancing security and safety – how to achieve an optimum solution

- When justifying a particular practice, what account should be taken of the security requirements for the radioactive sources? Should it be possible to prohibit certain practices because of concerns about security? Or is there a danger that security requirements will discourage the safe use of radioactive materials?
- Is there a security equivalent to the ALARA principle? For example “As Secure as Reasonably Practicable”? If so, how is an optimum level of security achieved? Or does a different principle apply?
- Is it important to link the cost of security measures with the potential savings in both dose and cost? If so, how should this be done?
- Are there examples of where safety and security requirements conflict (for example, the posting of warning signs?). If so, how should these be resolved?
- A balance is needed between information exchange (for safety purposes) and confidentiality (for security purposes). How should this be achieved in practice?

3. Management of emergency exposure situations from an ALARA perspective

- How should potential doses (public and worker) from malevolent acts be estimated? And how can these doses be taken into account when establishing a safety/security programme?
- How should first responders/emergency workers be equipped and trained to help restrict their own radiation exposures?
- In the event of an emergency exposure situation, what practical arrangements should be in place to apply the ALARA principle, i.e. to restrict the doses received by workers and the public as the situation evolves?

4. Justification and optimisation in the use of security devices

- What are the radiation protection issues associated with introduction of security-related screening of persons?
- How are such sources justified? What criteria should be used to assess the potential benefit? Is “security” always a sufficient justification?
- How should exposures (workers and public) be optimised? What dose constraints are appropriate – for screened persons, and for operators?
- What criteria, if any, should be applied when deciding who should and should not be x-ray screened? What information should be given to persons that are screened? What choices should they have?

Final programme

Tuesday - 20th October 2009

15.00 - 17.00 Registration

Wednesday - 21st October 2009

8.00 Registration

8.30 Welcome speeches

Mr. Günter Liebel (*Head of Department V - General Environmental Policy - Federal Ministry of Agriculture, Forestry, Environment and Water Management*)

Austrian Institute of Technology (AIT)
Seibersdorf Laboratories

8.45 Organisational arrangements

A. Hefner (*AIT, Austria*)

8.50 EAN Workshop objectives

P. Croûail (*EAN*)

Session 1: Introduction and scene setting –
Chairperson: A. Hefner (AIT)

9.00 EU HASS Directive

V. Tanner (*European Commission*)

9.20 IAEA activities on control of sources

H. Mansoux (*IAEA*)

9.40 ALARA in Security and Safety of Radiation Sources: an ICRP perspective

J. Lochard (*ICRP - Committee 4*)

10.00 International initiatives since 09/11 - Feedback from GICNT and other Workshops

Dr. R. Sefzig, G. Stoppa (*BMU, Germany*)

10.20 Discussions

10.40 *Coffee Break*

Thursday - 22nd October 2009

Session 2: Security and Safety Measures –

Chairperson: V. Tanner (European Commission)

11.00 Operation of the Register on High Activity Sealed Sources in Germany - four years of experience

U. Häusler (*BfS, Germany*)

11.15 Improved security measures for radiation sources in Norway - A case study of irradiation facilities in hospitals

S. Øvergaard, S. Hustveit (*NRPA, Norway*)

11.30 Safety, dose optimisation and security: the quadrature of the circle

F. Hardeman, F. Vermeersch (*SCK-CEN Mol, Belgium*)

11.45 Reclassification of security at a waste disposal repository

L. Hutton, K. Branthwaite (*LLWR, UK*),
B. Morley (*Consultant, UK*)

Presentation cancelled: ALARA principle in collecting radioactive sources: the Spanish experience

T. Ortiz Ramis (*ENRESA, Spain*)

12.00 How to combine security and safety of radioactive sources and good patient service in public of large hospitals

J. Kopp (*Klinikum Augsburg, Germany*)

12.15 Safety and Security of Sealed Radiation Sources for Industrial NDT Applications

B. Redmer, H-J. Malitte (*BAM Berlin, Germany*),
B. Sölter (*DGZfp Berlin, Germany*),
E. Reinhardt (*Governmental District of Cologne, Germany*),
R. Hacker (*Applus RTD Deutschland, Germany*)

12.30 Discussions

12.45 Lunch

14.00 Poster Session

14.45 Introduction to Working Groups

15.00 Working Groups

18.00 End of the day

Session 2: Security and Safety Measures –

Chairperson: V. Tanner (European Commission)

8.45 An Industry Perspective on an efficient safe and secure Life Dycle Management of Radioactive Sources

W.Fasten (*ISSPA, Germany*)

Session 3: Planned Exposure Situations –

Chairperson: H. Mansoux (IAEA)

9.00 Training programmes of workers dealing with security: national and regional aspects
P. Dimitriou (*GAEC, Greece*)

9.15 Aero-gamma measurements as an important tool after a nuclear accident

C. Strobl, I. Krol, M. Thomas, C. Hohmann,
C. Brummer (*BfS, Germany*)

9.30 Overview of ISIS (In-Situ Intercomparison Scenario) 2007 Workshop

M. Schwaiger (*Seibersdorf Laboratories, Austria*)

9.45 Experience of Georgian authorities in recovering orphan sources

G. Nabakthiani (*NRSS, Georgia*)

10.00 Discussions

10.15 Coffee Break

Session 4: Emergency situation management (especially due to malevolent acts) –

Chairperson: J. Lochard (CEPN, France)

10.45 Minimizing the radiation exposure risk of first responders during emergency situation management

E.A. Kroeger, R. Maier (*BfS, Germany*)

11.00 Training of emergency responders
T. Geringer (*Seibersdorf Laboratories, Austria*)

11.15 The UK Health Protection Agency's response to Polonium-210 Incident in London 2006
P. Tattersall (*HPA, UK*)

11.30 Radiation Protection Measures during the Investigation of Polonium-210 traces in Hamburg in December 2006
E.A. Kroeger, R. Maier (*BfS, Germany*)

11.40 IAEA Emergency preparedness and response programme
E. Buglova (*IAEA*)

11.55 On the use of an ALARA tool to countering nuclear or radiological terrorism
C. Rojas-Palma, K. Van der Meer, F. Vermeersch, R. Nijs (*SCK-CEN Mol, Belgium*)

12.10 Discussions

12.30 Lunch

Session 5: Justification and optimisation of doses in the use of security devices –
Chairperson: A. Schmitt-Hannig (*BfS*)

13.30 Use of X-ray Body Scanner Equipment in the UK and matters to consider to keep doses ALARA
A. MacDonald (*HPA, UK*)

13.45 Radiation Protection Control Area around Passenger Baggage X-Ray Units
I. Prlić, M. Surić Mihić, T. Meštrovic (*Institute for Medical Research and Occupational Health, Croatia*), Z. Cerovac (*ALARA Ltd, Croatia*)

14.00 Type testing of basic-protection devices in Germany
S. Neumaier, H. Dombrowski (*PTB, Germany*)
K-H. Motzkus (*BfS, Germany*)

14.15 Discussions

14.30 Working Groups

17.00 End of the Working Groups

19.00 Official dinner at “Heurigen”

Friday - 23rd October 2009

Session 6: Feedback and Conclusions –
P. Shaw, P. Croüail

9.00 Feedback from the Working Groups

10.30 Coffee break

11.00 Conclusions

12.30 End of the Workshop