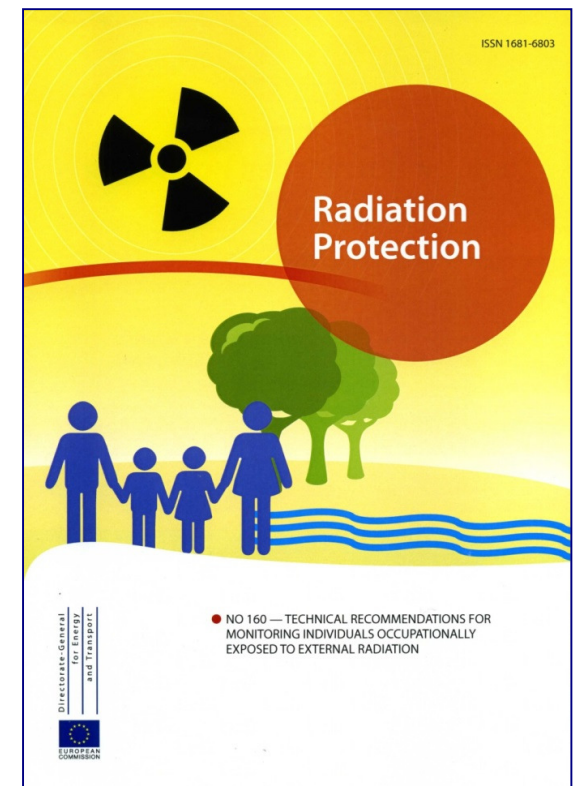


EURADOS Training Course on the
European Technical Recommendations for Monitoring Individuals Occupationally
Exposed to External Radiation (Radiation Protection 160)
Instituto Superior Técnico, CTN-Bobadela (Portugal)
18th to 22nd of May of 2015

Closure Session

João Alves, Oliver Hupe

EURADOS WG02
European Radiation Dosimetry Group e.V.



EURADOS



Purpose:
The implementation of the European Commission Technical Recommendations for Monitoring Individuals Occupationally Exposed to External Radiation (Radiation Protection 160, RP160). All aspects of individual monitoring as discussed in RP160 will be addressed during the course with an emphasis on metrology and quality assurance.

Topics covered:

- General radiation protection
- Basic detection principles
- Measurement methods
- Dosimetric quantities
- Uncertainty evaluation
- Calibration and type-testing
- Inter-comparisons
- Quality assurance, quality control
- Dose registration
- Accreditation
- QA audits

Practical sessions:
The program will contain some practical work for which a laptop will come in handy (not indispensable).

Certificate:
At the end of the course a certificate of attendance will be presented on behalf of EURADOS e.V.

Organization:
João Garcia Alves, IST, Portugal
Miguel Pereira, IST, Portugal

Program committee:
João Garcia Alves, IST, Portugal
Phil Gilvin, PHE, United Kingdom
Oliver Hupe, PTB, Germany
Janwillem van Dijk, The Netherlands
Markus Figel, HMGU, Germany
Renata Kopeć, IFJ PAN, Poland

Registration:
Registration from February 1st 2015 at:
<http://eurados-training.ifj.edu.pl>

Co-ordination:
Dr Oliver Hupe
Physikalisch-Technische Bundesanstalt
Bundesallee 100, D-38116
Braunschweig, Germany
oliver.hupe@ptb.de

Venue:
Instituto Superior Técnico
Campus Tecnológico e Nuclear
Laboratório de Proteção e Segurança Radiológica
Estrada Nacional 10, km 139,7
2695-066 Bobadela LRS, Portugal

Registration fee:
Regular fee: 550 euro¹⁾
Reduced fee: 450 euro^{2,3)}
The registration fee will cover lunches, coffee breaks, a special dinner and a city tour on Wednesday afternoon.

¹⁾ The fee is exclusive VAT. 7% VAT will be added for invoices to participants from Germany and from EU member states who cannot provide us with their VAT-ID number.

²⁾ Reduced fee for participants from the EURADOS sponsoring institutions.

³⁾ Participants from new EURADOS sponsoring institutions below are also eligible to the reduced fee.

EURADOS sponsors:

Important dates:

Registration deadline:	17 April 2015
Deadline for payment:	8 May 2015
Training course:	18-22 May 2015

Background:
The 3rd EURADOS Training Course on the implementation of the EC Technical Recommendations RP160 is an initiative of the EURADOS working group on Harmonization of Individual Monitoring (WG02). The revision of the Technical Recommendations RP73 was commissioned by the European Commission to a consortium of the Greek Atomic Energy Commission (GAEC) and EURADOS. The authors of RP160 were all members of the WG02 and in 2012 initiated this series of training courses. Earlier training courses on RP160 were held in 2012 in Krakow, Poland, at the IFJ and in 2013 in Zagreb, Croatia at the RBL. Some training material and extra documentation will be supplied on a usb memory stick.

Intended audience:
The course is intended for all stakeholders in individual monitoring for external radiation but in particular for junior or trainee managers of approved dosimetry services.

Download:
The Technical Recommendations RP160 can be downloaded from the websites of the European Commission:
http://ec.europa.eu/energy/nuclear/radiation_protection/doc/publication/160.pdf

Download:
The European Radiation Dosimetry Group is an independent society of more than 50 scientific institutions with a focus on the dosimetry of ionizing radiation. EURADOS was founded in 1981 and is seated in Braunschweig, Germany, as an "eingetragene Verein, (e.V)".
<http://www.eurados.org>

Background Image:
Laboratório de Proteção e Segurança Radiológica is part of the Instituto Superior Técnico

Course Title:
European Radiation Dosimetry Group
Bobadela near Lisbon
Portugal
18-22 May 2015
EURADOS Training Course

Course Content:
European Technical Recommendations for Monitoring Individuals Occupationally Exposed to External Radiation (Radiation Protection 160)

First announcement

Purpose of the training course:

- The implementation of RP 160
- Foster Harmonization of IM in EU

Why RP 160?

<http://projects.itn.pt/EURADOS>

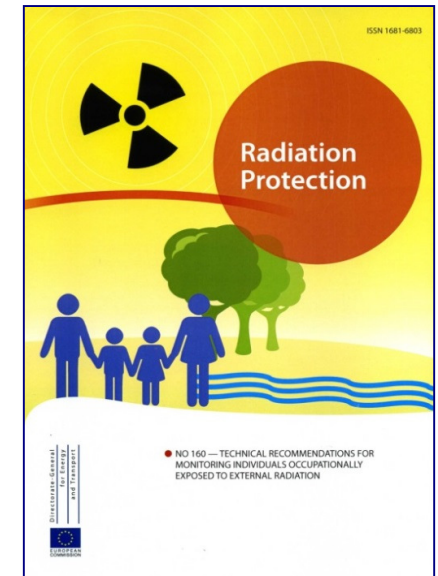
3rd EURADOS Training Course

Instituto Superior Técnico

Bobadela (Portugal), 18th to 22nd of May of 2015

Participants: 27

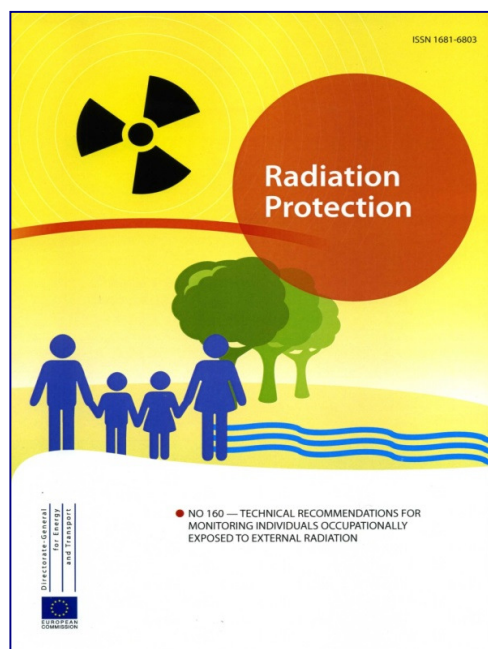
Albania	0	Poland	2
Belgium	2	Portugal	7
Germany	3	Romania	2
Greece	1	Spain	6
Italy	1	Switzerland	1
Netherlands	1	United Kingdom	1



EURADOS Training Course on Radiation Protection 160

Instituto Superior Técnico, CTN-Bobadela, Portugal

18th to 22nd of May of 2015



Ana
Romero



Janwillem
van Dijk



João
Alves



Michael
Hajek



Oliver
Hupe



Peter
Ambrosi



Phil
Gilvin



Lecturers

Local Organizing Committee



Joana
Pereira



Manuela
Saraiva



Sandra
Rangel



Miguel
Pereira

Wish the Training Course will
meet your expectations!

EURADOS Training Course on Radiation Protection 160

Instituto Superior Técnico, CTN-Bobadela (Portugal)

18th to 22nd of May of 2015

Acknowledgements

➤ European Radiation Dosimetry Group e.V.

WG02 Harmonization of Individual Monitoring in EU

➤ Programme Committee

Oliver Hupe, PTB, Germany

Janwillem van Dijk, The Netherlands

João Alves, IST, ULisboa, Portugal

EURADOS WG02

➤ Lecturers

Ana Romero, CIEMAT, Spain

Janwillem van Dijk, The Netherlands

João Alves, IST, ULisboa, Portugal

Michael Hajek, IAEA, UN, Austria

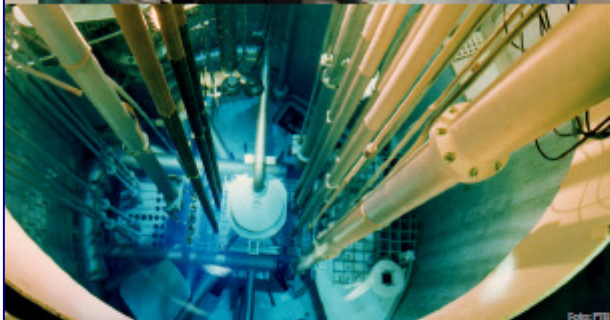
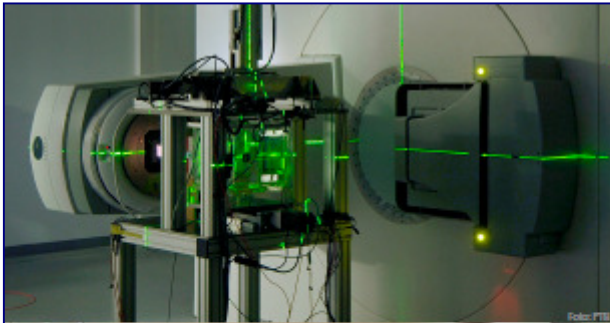
Oliver Hupe, PTB, Germany

Peter Ambrosi, PTB, Germany

Phil Gilvin, PHE, United Kingdom

➤ Local Organization

IST staff, ULisboa



The European Radiation Dosimetry Group

We are a network of more than 50 European institutions (Voting Members) and 200 scientists (Associate Members).

Our activities encompass:

- ▷ coordination of working groups which promote technical development and its implementation in routine work which contribute to compatibility within Europe and conformance with international practices
- ▷ organization of scientific meetings and training activities
- ▷ organization of intercomparisons and bench mark studies



Aims

As a non-profit organization we promote research and development and European cooperation in the field of the dosimetry of ionizing radiation.

We maintain a network which includes experts, reference and research laboratories, and dosimetry services. This enables appropriate specialist groups to be formed in a timely manner to solve problems or promote research identified within EURADOS or upon request from external bodies.

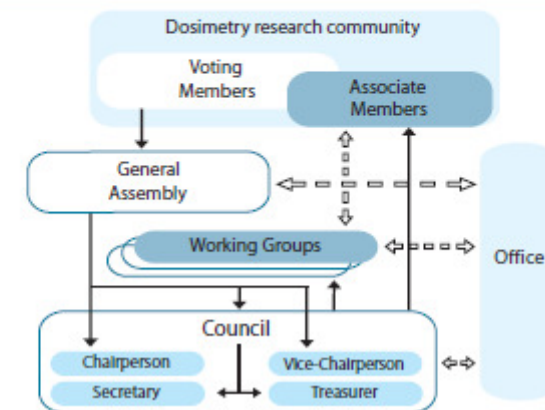
Areas of Activity

- ▷ Individual monitoring for external exposure
- ▷ Individual monitoring for internal exposure
- ▷ Retrospective dosimetry
- ▷ Environmental radiation monitoring
- ▷ Diagnostic and interventional radiology
- ▷ Nuclear medicine
- ▷ Radiation therapy
- ▷ Computational dosimetry

Working Groups (Status 2010)

- WG2: Harmonization of individual monitoring in Europe
- WG3: Environmental dosimetry
- WG6: Computational dosimetry
- WG7: Internal Dosimetry
- WG9: Radiation protection dosimetry in medicine
- WG10: Retrospective dosimetry
- WG11: High energy radiation fields
- WG12: European Medical ALARA Network

Structure of EURADOS



Regular Activities and Recent Topics

Winter Schools

- > Uncertainties in Radiation Dosimetry
- > Retrospective Dosimetry
- > Low-Dose Radiation Effects
- > Radiological Emergencies – Internal exposures

Symposia / Workshops

- > Biological and Physical Dosimetry
- > Dosimetry for Medical Applications
- > Uncertainties in Dosimetry
- > Characterization of Workplaces
- > Medical Use of Ionizing Radiation
- > Cosmic Radiation and Aircrew Exposure
- > Accelerator radiation protection and shielding

Intercomparisons

- > Individual Monitoring of External Radiation
- > Early Warning Radiation Monitoring Systems
- > Computational Codes in Radiation Dosimetry
- > Neutron Spectrometry
- > Internal Dosimetry

Training courses

- > Methods in Radiation Measurement
- > Internal Dosimetry
- > Transport Calculations and Spectrum Unfolding



EURADOS e. V. is registered in the German Register of Societies as non-profit association.

Our financial resources originate from sponsoring institutions, from voting members, from levies raised for activities organized by EURADOS (annual meetings, training courses and intercomparison exercises), and from projects funded by the European Communities.

Members

- > Voting Members (institutions)
- > Associate Members (persons)
- > Supporting Institutions

Main bodies

- > General Assembly
- > Executive Board
- > Council
- > Working Groups

Members of the Executive Board:

Chairperson:
Helmut Schuhmacher, PTB, DE
chairperson@eurados.org

Vice-Chairperson:
Elena Fantuzzi, ENEA, IT
vice-chairperson@eurados.org

Treasurer:
Joao Alves, ITN, PT
treasurer@eurados.org

Secretary:
Filip Vanhavere, SCK-CEN, BE
secretary@eurados.org

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