

João Alves

[jgalves@ctn.ist.utl.pt](mailto:jgalves@ctn.ist.utl.pt)

Universidade de Lisboa, Faculdade de Ciências

- 1987 graduation in physics, microphysics
- 1992 MSc in applied nuclear physics

Universidade Nova de Lisboa, Fac de Ciências e Tecnologia

- 2000 PhD in physics (biophysics)

Since 1988 at IST (formerly, INETI, DGA, ITN)

- 1988-1994 Study of TLDs for IM, envirom, clinical applications
- 1994-2013 Head of Ind Monitoring for External Radiation Service
- 2013-... Head of Laboratory for Radiation Protection and Safety

Instituto Superior Técnico  
[www.tecnico.ulisboa.pt](http://www.tecnico.ulisboa.pt)



- School of Engineering of Univ Lisboa
- Campus Alameda (Lisboa)
- Campus Taguspark (Oeiras)
- Campus Tecnológico e Nuclear (Loures, Bobadela)
  - Laboratory for Nuclear Engineering (LEN)
  - Laboratory of Accelerators and Radiation Technologies (LATR)
  - Laboratory for Radiation Protection and Safety (LPSR)
  - Research Units: C<sup>2</sup>TN and IPFN
  - Dept. Nuclear Sciences and Engineering

## IST-LPSR, DIRE

- Individual and environmental monitoring service
- Harshaw 6600 readers, WB, EXT, area monitoring with TLDs
- Harshaw holders 8814 and 8855; EXT-RAD type
- TLD-100 and TLD-100H element cards detectors
- Accredited in compliance with EN ISO/IEC 17025 since 2011
- 3700 monitored (1500 m, 2200 q)
- Staff 4: 2 Graduated Tec. + 2 Technicians

Janwillem van Dijk

[jwe.van.dijk@xs4all.nl](mailto:jwe.van.dijk@xs4all.nl)

- Chemistry and numerical mathematics Leyden University
- PhD physical chemistry Nijmegen University 1978
- 1978-1988 TNO Dental research institute Utrecht
- 1988-2008 TNO/NRG Individual Monitoring Service Arnhem
- 1997-2008 ESOREX Steering committee
- 1997- EURADOS working group 2

Retired from:

NRG Radiation and Environment

Arnhem, the Netherlands

[www.nrg.eu](http://www.nrg.eu)



- Radiation and Environment
  - Individual Monitoring
- Irradiation and Development
- Safety and Power

## NRG Individual Monitoring Service

- In-house developed TLD dosimeters
- 4 In-house developed automatic readers
- ISO-9001, ISO-17025 in progress
- Dummy customer
- 30,000 dosimeters per month
- National dose registry
- Aircraft crew dosimetry

Information [info.im@nrg.eu](mailto:info.im@nrg.eu)

Oliver Hupe

[oliver.hupe@ptb.de](mailto:oliver.hupe@ptb.de)

- Technical University of Braunschweig, Germany
  - 2002 PhD about nanostructured magnetic iron alloys
- 2003 Physikalisch-Technische Bundesanstalt (PTB)
  - 2003 – 2005 Dosimetry for Brachtherapy
  - 2005 – 2008 Head of working group “Photon Dosimetry”
  - 2005 – ... IEC work
  - 2014 – ... ISO TC85/SC2, convenor WG2 “Reference fields”
  - 2013 – ... EURADOS working group 2

Physikalisch-Technische Bundesanstalt  
National Metrology Institute  
Braunschweig, Germany

[www.ptb.de](http://www.ptb.de)



Physikalisch-Technische Bundesanstalt  
Braunschweig und Berlin

- Mechanics and Acoustics (*Avogadro project for redefinition of kg*)
- Electricity
- Chemical Physics and Explosion Protection
- Optics (*Atomic clock*)
- Precision Engineering
- **Ionizing Radiation**
- Temperature and Synchrotron Radiation
- Medical Physics and Metrological Information Technology



## Experience / Skills

- Realisation of the phantom based radiation protection quantities
- Type test of area and personal dosimeters
- Standardisation
  - IEC: Type test requirements
  - ISO: Reference radiation fields
- Research & Development related to radiation protection
- Lecturing on radiation protection

Phil Gilvin

[phil.gilvin@phe.gov.uk](mailto:phil.gilvin@phe.gov.uk)

- University of Leicester, UK:
  - B.Sc. Physics with Astrophysics
  - Ph.D. Physics
- 1985 - 2005 UK National Radiological Protection Board (NRPB)
  - 1985-88 Development of PADC (CR-39) neutron and radon dosimeters
  - 1988-95 Deputy manager, Personal Monitoring Service
  - 1995 – Manager, Personal Monitoring Service

2005 – NRPB becomes part of English Health Protection Agency (HPA)

2013 – HPA becomes part of Public Health England



Public Health  
England

[PHE Personal Dosimetry Service](#)

Whole body TLD (also used film badges until 2006)

Extremity TLD

PADC track-etch for neutron and radon

70 000 wearers

>400 000 doseimeters/ year

## Experience/ Skills

- Compliance with UK national approval system, partially corresponding with ISO 17025
- Assisted with QA audits in another country
- Preparing for ISO 17025 application
- Steering committee for “ESOREX” studies, 1995 – 2010
- Lecturing on PHE’s professional level training courses
- EURADOS WG2 since 2011

Ana M<sup>a</sup> Romero

[ana.romero@ciemat.es](mailto:ana.romero@ciemat.es)

- Complutense University of Madrid, Spain:
  - B.Sc. Physics with Astrophysics
  - M.Sc. in Materials and Metallurgical Engineering
- 1991 - present: Ciemat
  - 1991 - 2005: External Dosimetry Service, study of TL materials
  - 2005 - 2010: Head of External Dosimetry Service
  - 2010 - present: Head of Personal Dosimetry Service

Ciemat  
Madrid, Spain



- Energy
- Environment
  - Individual Monitoring for external and internal exposures
- Technology
- Basic Research
- National Fusion Laboratory

## Ciemat External Dosimetry Service

- Panasonic whole body and extremity dosimeters
- 2 Panasonic automatic readers
- Approved by Spanish Regulatory Body since 1984
  - 1959 – 1992: Film dosimetry
  - 1992 - : TL dosimetry
- Accredited according ISO 17025 since 2012
- ~ 1000 individuals monitored per month
- Environmental and area dosimetry
- Staff: 4 technicians and 4 laboratory assistants

Peter Ambrosi

[Peter.ambrosi@ptb.de](mailto:Peter.ambrosi@ptb.de)

- Technical University of Braunschweig, Germany
  - 1980 PhD about plasticity of copper single crystals
- 1981 Physikalisch-Technische Bundesanstalt (PTB)
  - 1981 – 1991 Scientist in the field of personal dosimetry
  - 1991 – 2002 Head of section “Area and personal dosimetry”
  - 2002 – 2014 Head of department “Radiation Protection Dosimetry”
  - 1994 – 2014 Chairman, project leader/member of several national and committees for standardization, e. g. DIN/NAR AA1, GUK 967.3, ISO TC85/SC2/WG 2, IEC/SC45B/WG B8 and B14, CENELEC/SC45B
  - 1997 – ... EURADOS working group 2



## By the end of 2014 retired from

Physikalisch-Technische Bundesanstalt  
National Metrology Institute  
Braunschweig, Germany

[www.ptb.de](http://www.ptb.de)



- Mechanics and Acoustics (*Avogadro project for redefinition of kg*)
- Electricity
- Chemical Physics and Explosion Protection
- Optics (*Atomic clock*)
- Precision Engineering
- **Ionizing Radiation**
- Temperature and Synchrotron Radiation
- Medical Physics and Metrological Information Technology

## Experience / Skills

- Concepts for type test of area and personal dosimeters
- Algorithms for dosimeters with several detectors/signals
- Uncertainty of dose measurement
- Realisation of the phantom related radiation protection quantities
- Development of “ $H_p(10)$  secondary standard chamber”
- Development of “Beta secondary standard, BSS 2”
- Development of “gliding-shadow film dosimeter”
- R & D for radiation protection dosimetry
- Lecturing on radiation protection dosimetry