

Second Announcement and Call for Registration

EURADOS Annual Meeting 2018

AM2018

Lisbon, 5th to 8th February 2018



Including:

- > Winter School "Application of physical and computational phantoms in dose assessment"
- > Meetings of EURADOS Working Groups
- > Participant Meeting EURADOS Intercomparison IC2017n
- > Learning Network
- > EURADOS General Assembly and Council Meeting



Invitation

Dear Colleagues,

It is my pleasure to invite all colleagues interested in the dosimetry of ionising radiation to the EURADOS Annual Meeting 2018 (AM2018), which will take place from 5th to 8th February 2018 at the Centre of Congress of the Instituto Superior Técnico (IST) in Lisbon, Portugal.

As in previous years, the Annual Meeting will include official EURADOS events (General Assembly, Council Meeting) and meetings of all EURADOS Working Groups. To support the EURADOS commitment to education and training, the 11th EURADOS Winter School on "Application of physical and computational phantoms in dose assessment" will also be an essential part of AM2018. The programme will be completed by the IC2017n participants meeting and by a meeting of the Learning Network founded at the last Annual Meeting. Finally, the conference dinner will provide further opportunities for discussion, exchange of opinions, and networking.

We hope having assembled an attractive programme which tightens existing and supports new contacts, stimulates lively discussions, and fosters the development of innovative scientific ideas.

I am looking forward to welcome you in Lisbon!

Werner Rühm
Chairperson EURADOS

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Important dates

- > Deadline for early registration (reduced fee) 10 January 2018
- > Deadline for registration 30 January 2018
- > EURADOS Annual Meeting 2018 05-08 February 2018

Timetable EURADOS Annual Meeting 2018

The table shows the outline of the various meetings. More details are given further below.

Time	Monday 05.02.2018	Tuesday 06.02.2018	Wednesday 07.02.2018	Thursday 08.02.2018
08:30-09:00		Registration	Registration	Registration
09:00-09:30	EURADOS Council ¹⁾	WG meetings ^{2,3)}	WG meetings ²⁾	11 th EURADOS Winter School ⁵⁾
09:30-10:00				
10:00-10:30		Coffee break	Coffee break	Coffee break
10:30-11:00		WG meetings ^{2,4)}	WG meetings ²⁾	11 th EURADOS Winter School
11:00-11:30				
11:30-12:00		Lunch	Lunch	
12:00-12:30				Lunch
12:30-13:00	Registration	Lunch	Lunch	
13:00-13:30				Lunch
13:30-14:00	WG meetings ²⁾	WG meetings ^{2,4)}	EURADOS General Assembly	11 th EURADOS Winter School
14:00-14:30				
14:30-15:00				
15:00-15:30				
15:30-16:00	Coffee break	Coffee break	Coffee break	
16:00-16:30	WG meetings ²⁾	WG meetings ^{2,4)}	EURADOS General Assembly	
16:30-17:00				
17:00-17:30				
17:30-18:00				

¹⁾ Additional Council meetings Sun 15:00 and Fri 09:00	Conference Dinner
²⁾ Meetings of all 8 WGs in parallel	
³⁾ IC2017n Meeting in parallel	
⁴⁾ Learning Network in parallel	
⁵⁾ Topic: Application of phantoms in dose assessment	

EURADOS Working Group meetings

The table lists the Working Groups (WGs) which meet from February 5th to 7th. All meetings run in parallel. Participants are primarily the members of the WG. The agenda for each WG meeting is distributed in advance to the WG members. The meetings are also open to interested persons, who should contact the responsible WG chairperson in advance.

WG Meetings	WG Chairperson and email address	
WG2 – Harmonisation of individual monitoring	P. Gilvin	Phil.Gilvin@phe.gov.uk
WG3 – Environmental dosimetry	A. Vargas	arturo.vargas@upc.edu
WG6 – Computational dosimetry	R. Tanner	rick.tanner@phe.gov.uk
WG7 – Internal dosimetry	M.A. Lopez	ma.lopez@ciemat.es
WG9 – Dosimetry in radiotherapy	R. Harrison	roger.m.harrison@googlemail.com
WG10 – Retrospective dosimetry	C. Woda	clemes.woda@helmholtz-muenchen.de
WG11 – High-energy radiation fields	J-F. Bottollier Depois	jeanfrancois.bottollier@irsn.fr
WG12 – Dosimetry in medical imaging	Ž. Knežević	zknez@irb.hr

Intercomparison IC2017n Participant Meeting

The Participant Meeting of the EURADOS Intercomparison on whole body neutron dosimeter (IC2017n) takes place on Tuesday, February 6th, from 09:00 to 11:30. The aims are to present and discuss the results of the intercomparison. The meeting is primarily designed for the participants of IC2017n but it is open to interested persons.

Learning Network

The Learning Network is an extension to the Intercomparison Participants' Meeting on Tuesday. It takes place from 11:30 to 17:30. This will feature topical talks and discussions. It is aimed at staff – particularly trainee managers – of Individual Monitoring Services, but is open to anyone who is attending the Annual Meeting (including the Intercomparison Participants' Meeting).

EURADOS General Assembly

The General Assembly (GA) takes place on Wednesday, February 7th, from 13:30 to 18:00. It includes statutory topics of the association (elections, financial report), but also activity reports from the EURADOS Chairperson and Working Groups. In addition, the winners of the EURADOS Young Scientist Grant and Award will be presented. The detailed agenda of the GA will be distributed to the Voting Members. This event is open to interested persons.

Conference dinner

A conference dinner is scheduled on Wednesday evening at 20:30 at the restaurant **Casa do Alentejo**, Rua Portas de Santo Antão 58, 1150-268 Lisboa (www.casadoalentejo.com.pt). For registered participants the costs are included in the registration fee. The costs for accompanying persons are 30 €, to be paid in cash at the registration desk.

11th EURADOS Winter School

"Application of physical and computational phantoms in dose assessment"

8th February 2018

Scope:

Phantoms are used as replacements for the human body in the dosimetry of ionizing radiation. They are indispensable tools for dose assessment in radiation protection and radiotherapy, either as physical phantoms employed in measurements or as computational phantoms used for numerical dosimetry. Measurements may need a physical phantom to produce results that are representative of dose deposition in a person but in some instances, measurement is not possible so computational phantoms are required.

The complexity of phantoms ranges from very simple geometries for calibration purposes to very complex geometries which include organs and tissues of the body in great detail. The latter type is used in radiotherapy in conjunction with treatment planning system algorithms for dose verification, the determination of critical organ and tissue doses, and for Quality Assurance.

The Winter School will give insight into the various phantoms used in different applications and demonstrate how they contribute to the improvement of dose assessment. Emphasis will be given to recent developments which are made possible by advances in the numerical tools that are now available and by increases in computational speed.

All lectures will be given by internationally well-known scientists who are involved in the development or application of phantoms in dose assessment. Participants will receive a certificate of attendance

Topics:

- > Mathematical representations of humans
- > Application of phantoms in medical imaging
- > Phantoms in radiotherapy
- > Applications of phantoms for internal dosimetry
- > Phantoms for space applications
- > Phantoms for radioecology
- > Phantoms for metrology

Scientific Committee:

- > Rick Tanner (PHE, UK)
- > Isabelle Clairand (IRSN, France)
- > Roger Harrison (University of Newcastle, UK)
- > Maria Antonia Lopez (CIEMAT, Spain)
- > Pedro Teles (IST, Portugal)

Programme of the 11th EURADOS Winter School:

Time	Topic	Speaker
09:00	Welcome on behalf of the Scientific Committee	
09:05	Developments from MIRD to the current ICRP reference voxel phantoms	Maria Zankl, HMGU (Germany)
09:40	Development of age dependent phantoms	Wesley E. Bolch, Univ. Florida (US)
10:15	Polygon Mesh Conversion of the ICRP Reference Phantoms	Chan Hyeong Kim (Korea)
10:40	Coffee Break	
11:15	Use of voxel phantoms for CT dosimetry	Jan Jansen, PHE (UK)
11:50	Anthropomorphic phantoms for radiotherapy	Joana Lencart, IPOPGF (Portugal)
12:25	Physical and Mathematical phantoms for internal dosimetry applications (including outcome of CATHYMARA Project)	David Broggio, IRSN (France)
13:00	Lunch	
14:00	Matroshka and other physical phantoms used for dosimetry in space	Günther Reitz, DLR (Germany)
14:35	Application of age dependent phantoms for environmental exposures	Nina Petoussi-Henss, HMGU (Germany)
15:10	Phantoms for non-human biota for radioecology	Jose Maria Gomez Ros, CIEMAT (Spain)
15:45	Physical phantoms in metrology	Oliver Hupe, PTB (Germany)
16:20	End of the Winter School	

Venue, transportation and accommodation

Venue

The EURADOS Annual Meeting 2018 takes place at

Centre of Congress of IST (Civil Engineering Pavilion)

Instituto Superior Técnico – University of Lisbon

Avenida Rovisco Pais, 1

1049-001 Lisboa - Portugal



Transportation

There are several **daily flights** from all European capitals to the Lisbon International Airport (Humberto Delgado). Alternatively, Lisbon can be reached by **train** (Oriente or Alcântara stations) or **car** (all major motorways).

The **IST Central Campus** can be reached by **metro** (from the airport take the **red line** to station "Alameda"). Alternatively, you can reach the campus by taxi/uber/cabify¹. The campus is also served by several bus lines. For more information on Lisbon public transport please consult <http://www.transporlis.pt/>.

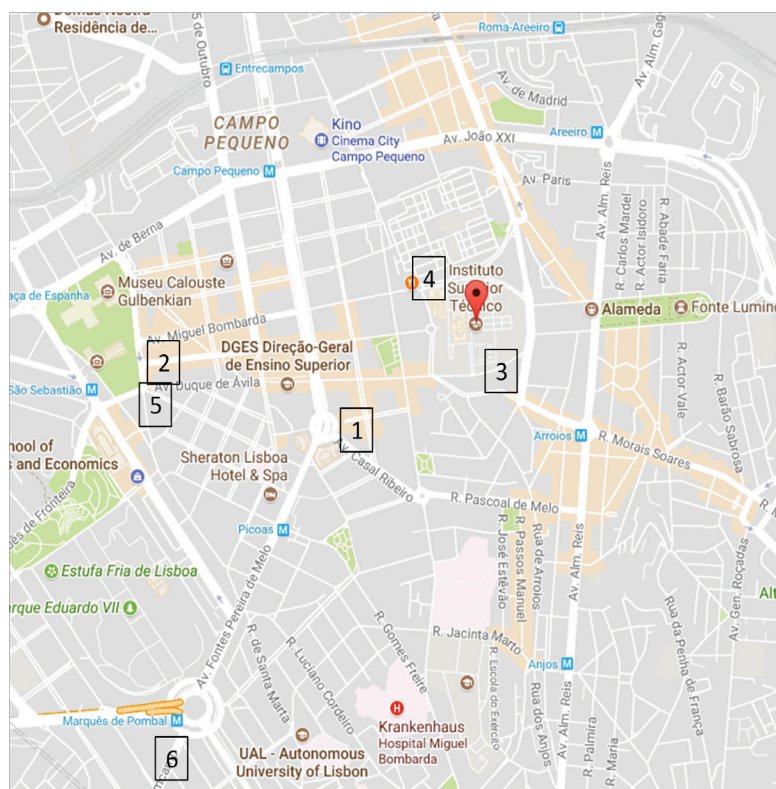
The congress centre is located inside the **Civil Engineering Pavilion**. All meetings will take place at the Civil Engineering pavilion.

¹ Participants who are eligible for reimbursement of travel and subsistence costs by EURADOS are reminded that taxi costs are not eligible, unless justified and approved in advance.

Accommodation

There are many hotels in and around the IST Alameda Campus. Several rooms have been pre-booked at special flat rates for the conference in different hotels around that area (see map below, the numbers indicate the hotels in their sequence in the table). These have to be booked by each participant either by a registration form or directly with the hotels. The registration forms will be provided later on the registration platform for registered participants and on www.eurados.org.

HOTELS	ADDRESS	WEBSITE	STARS	RATE B&B in €		HOW TO BOOK
				single	double	
Olissippo Saldanha	Av. Praia da Vitória 30	www.olissippohotels.com	****	90	100	Registration form
Olissippo Marquês de Sá	Av. Miguel Bombarda 130	www.olissippohotels.com	****	75	85	Registration form
Turim Alameda	Av. Rovisco Pais 34	www.turimalamedahotel.com	****	65	70	Registration form
Holiday INN Lisboa	Av. de António José de Almeida 28	holiday-inn-lisbon-lisbon-hotel.org	****	72	82	Registration form
Hotel Principe Lisboa	Av. Duque de Ávila 201	www.hotelprincipelisboa.com	***	45	50	Directly with hotel with code:"Meeting EURADOS2018"
Expo Astória	R. Braamcamp 10	www.expoastoria.pt	***	49	55	Directly with hotel with code:"Meeting EURADOS2018"



Further hotels may be booked using one of the Internet Platforms.

Participants who are eligible for reimbursement of travel and subsistence costs by EURADOS are reminded, that the maximum hotel costs paid by EURADOS are 92 € per night.

Local organisation

- > Pedro Teles - chair (IST)
- > Ana Belchior (IST)
- > José Corisco (IST)
- > Miguel Pereira (IST)
- > Yuriy Romanets (IST)
- > Pedro Vaz (IST)

Contact

Pedro Teles

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2695-066 Bobadela LRS

Email: ppteles@ctn.tecnico.ulisboa.pt

Phone (work): +351 219 946 295

Registration

Registration should be done online at www.eurados-registration.org until **30 January 2018**

Conference fee

registration and payment <u>latest</u> 10 January 2018	registration and payment <u>after</u> 10 January 2018
Full Fee: 250 €	Full Fee: 325 €
Reduced Fee ¹⁾ : 200 €	Reduced Fee ¹⁾ : 275 €

¹⁾ Reduced fee for participants from sponsoring institutions
(see page 10 or <http://www.eurados.org/en/Sponsors>)

The fee includes participation in all events of AM2018, coffee breaks, lunches (on Tue, Wed and Thu) and conference dinner (on Wed).

The fee is waived for the following persons:

- > Invited speakers of the Winter School
- > Members of the EURADOS Council and WG chairpersons
- > One person from companies of the industrial exhibit
- > Persons from dosimetry services who participate in the EURADOS Intercomparison IC2017n if they attend only in the IC2017n Meeting and Learning Network on Tuesday

Enquiries on registrations & payments:

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EURADOS sponsors

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Dosilab AG



Dosimetrics GmbH



DOZIMED S.R.L.



Greek Atomic Energy Commission



ELSE Nuclear srl

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Deutsches Forschungszentrum für Gesundheit und Umwelt

Helmholtz Zentrum München



Institut de Radioprotection et de Sécurité Nucléaire



Institute of Nuclear Physics



International Atomic Energy Agency



Istituto Superiore di Sanità



Karlsruhe Institute of Technology



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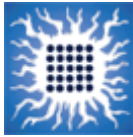
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Studiecentrum voor Kernenergie (Belgian Nuclear Research Centre)

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