

**SECOND Announcement and Call for Registration**

# EURADOS Annual Meeting 2020

## AM2020

**Firenze, Italy, 27<sup>th</sup> to 30<sup>th</sup> January 2020**



Including:

- > Winter School "Eye lens dosimetry"
- > Meetings of EURADOS Working Groups
- > Learning Network
- > EURADOS General Assembly and Council Meeting

## INVITATION

Dear colleagues,

It is my great pleasure to invite all colleagues interested in ionising radiation dosimetry to the EURADOS Annual Meeting 2020 (AM2020) that will be held from 27 to 30 January 2020 at the Hotel Mediterraneo in Florence, Italy.

As in previous years, the Annual Meeting will include official EURADOS events (General Assembly and Council meeting) and meetings of all the EURADOS Working Groups. To support the EURADOS commitment of education and training, the 13<sup>th</sup> EURADOS Winter School, devoted this year to the hot topic of “Eye Lens Dosimetry”, will also be an important part of AM2020. The programme will be completed by a meeting of the Learning Network mainly intended for staff of individual monitoring services. Finally, the Conference Dinner will provide further opportunities for discussion, exchange of opinions and networking, all in a friendly atmosphere.

We hope having assembled a comprehensive and attractive programme that will enable the dosimetry community to strengthen existing contacts and develop new ones, stimulate lively discussions and foster the emergence of innovative scientific ideas.

I am looking forward to welcome you in Florence!

Werner Rühm,  
*Chairperson EURADOS*



Dear EURADOS Community,

It will be an honour for us to host you in Florence for the EURADOS AM2020. It is almost impossible to describe in few lines the cultural and historical heritage of this town. Florence has about 400 thousand inhabitants and is the capital of the Tuscany region. This city is universally recognized as a city of art, for its precious and incomparable artistic heritage that includes monuments of different styles, rich museums such as the Uffizi Gallery and the Pitti Palace, and magnificent villas largely belonging to the historic Medici family.

Florence, under the influence of its governors, i.e. the Medici, became a thriving economic and cultural centre in the panorama of medieval Europe.

It is considered the place of origin of the Renaissance, as cradle of the cultural and scientific renewal that marked the end of the fourteenth century and then exploded in 1500 throughout Europe. The Uffizi Gallery is a sign of this Renaissance atmosphere; and represents one of the most renowned art galleries in Italy, with an amazing collection of Renaissance art. Palazzo Pitti, on the other hand, was the palace of Florence, from the second half of the sixteenth century until the time of the Savoys, a period in which Florence was the capital of Italy (1865). The heart of Florence is Piazza della Signoria, which can be easily reached on foot from the Ponte Vecchio. This square represents the seat of civil power and the fulcrum of social life, together with the Palazzo Vecchio. Not far away is the cathedral of Santa Maria del Fiore, with a magnificent dome designed so large in size, which was said to have covered all of Tuscany with its shadow.

The meeting has the grant from AOU Careggi, the largest hospital in Tuscany. The hospital hosts a lot of activities involving the use of radiations, thus a big Health Physics unit is active in the hospital dealing with radiation protection of both patients and workers.

AOU Careggi has also a dosimetry service, part of the Health Physics unit, providing dosimeters to the larger part of the whole Tuscany. The service is the first one accredited in Italy.

We wait for you in Firenze!!



Marco Caresana



Francesco Rossi

## Timetable EURADOS Annual Meeting 2020

Time	Monday 27.01.2020	Tuesday 28.01.2020	Wednesday 29.01.2020	Thursday 30.01.2020	Time	
08.30-09.00		Registration	Registration	Registration	08.30-09.00	
09.00-09.30	EURADOS Council <sup>1)</sup> and optional WG meetings	WG meetings <sup>2,3)</sup>	WG meetings <sup>2)</sup>	13 <sup>th</sup> EURADOS Winter School <sup>4)</sup>	09.00-09.30	
09.30-10.00		Coffee break	Coffee break		Coffee break	09.30-10.00
10.00-10.30		WG meetings <sup>2,3)</sup>	WG meetings <sup>2)</sup>	13 <sup>th</sup> EURADOS Winter School	10.00-10.30	
10.30-11.00		Registration	Lunch	Lunch	Lunch	10.30-11.00
11.00-11.30		WG meetings <sup>2)</sup>	WG meetings <sup>2)</sup>	32 <sup>nd</sup> EURADOS General Assembly	13 <sup>th</sup> EURADOS Winter School	11.00-11.30
11.30-12.00		Coffee break	Coffee break			Coffee break
12.00-12.30	WG meetings <sup>2)</sup>	WG meetings <sup>2)</sup>	32 <sup>nd</sup> EURADOS General Assembly		12.00-12.30	
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16.30-17.00					16.30-17.00	
17.00-17.30					17.00-17.30	
17.30-18.00					17.30-18.00	
20:00			Conference Dinner			

<sup>1)</sup> Additional Council meeting Sun 15: 00 and Fri 09:00

<sup>2)</sup> Meetings of all 8 WGs in parallel

<sup>3)</sup> Learning Network in parallel

<sup>4)</sup> Topic: Eye lens dosimetry

## EURADOS Working Group meetings

The following table lists the Working Groups (WG) which meet from Monday 27<sup>th</sup> to Wednesday 29<sup>th</sup>. All meetings run in parallel. The agenda for each WG meeting will be distributed in advance to the WG members. Participants are primarily the members of the WG, but they are also open to interested persons, who should contact the responsible WG chairperson before the annual meeting.

WG meetings	WG Chairperson and email address	
<b>WG2</b> – Harmonisation of individual monitoring	Phil Gilvin	Phil.Gilvin@phe.gov.uk
<b>WG3</b> – Environmental dosimetry	Arturo Vargas	arturo.vargas@upc.edu
<b>WG6</b> – Computational dosimetry	Hans Rabus	Hans.Rabus@ptb.de
<b>WG7</b> – Internal dosimetry	Bastian Breustedt	bastian.breustedt@kit.edu
<b>WG9</b> – Dosimetry in radiotherapy	Liliana Stolarczyk	Liliana.Stolarczyk@skandion.se
<b>WG10</b> - Retrospective dosimetry	Liz Ainsbury	liz.ainsbury@phe.gov.uk
<b>WG11</b> – High-energy radiation fields	Marco Caresana	marco.caresana@polimi.it
<b>WG12</b> – Dosimetry in medical imaging	Željka Knežević	zknez@irb.hr

## **Learning Network**

The Learning Network will be held on Tuesday, January 28, from 9:00 am to 12:30 pm. There will be topical conferences and discussions. It is intended for staff, in particular trainee managers, of individual monitoring services, but is open to anyone attending the Annual Meeting. It is necessary to register specifically for this event via the EURADOS AM2020 registration platform.

## **EURADOS General Assembly**

The General Assembly (GA) will be held on Wednesday, January 29, from 13:30 to 18:00. It will include statutory topics of the association (elections, treasurer 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. It is necessary to register specifically for this event via the EURADOS AM2020 registration platform.

## **Conference Dinner**

A conference dinner is scheduled on Wednesday, January 29, at 20:00 in the Grand Hotel Mediterraneo. For registered participants, the costs are included in the registration fee.

The costs for accompanying persons are 55 €, to be paid by cash at the registration desk.



## 13<sup>th</sup> EURADOS Winter School "Eye lens dosimetry"

30<sup>th</sup> January 2020

### Scope

The Council Directive 2013/59/EURATOM of 5 December 2013 lays down basic safety standards for protection against the dangers arising from exposure to ionising radiation. It includes a new dose limit for the eye lens, with a reduction from 150 to 20 mSv per year (average over five years, with no single year exceeding 50 mSv), that is to say 7.5 times lower than it was. The member states had four years (deadline February 2018) to implement the Directive into their legislation.

The lowered dose limit raised a lot of issues, concerning the need for a dedicated eye lens dose monitoring, the choice of monitoring programme and the workers needing it, etc. Consequently, research studies and monitoring surveys were performed in the recent years, and in some member states new regulations and associated guidance were developed according to the new directive

The medical field is without a doubt the most affected, in particular interventional radiology and cardiology, thus input is needed from surgeons who now find themselves wearing another dosimeter.

Dosimetric services are also stakeholders, not only in terms of dosimeter supply but also for other organisational issues, including dose recording and record keeping, dose reporting, etc.

The course will give an overview regarding the scientific background for the changes in legislation, the current status of regulations and guidance, what is currently available to support radiation protection of the lens and identify the questions that at yet remain to be fully answered.

All lectures will be given by internationally well-known scientists who are involved in the field. Participants will receive a certificate of attendance.

### Topics

- > Radiobiology
- > Implementation of eye lens monitoring in different European countries
- > Dosimetric units, standards and regulation
- > Eye lens dosimeter type testing and calibration procedures
- > Protecting devices
- > Issues for dosimetric services
- > Intercomparisons
- > Epidemiology

### Scientific Committee

- > Liz Ainsbury (PHE, UK),
- > Isabelle Clairand (IRSN, France),
- > Elena Fantuzzi (ENEA, Italy),
- > Mercè Ginjaume (UPC, Spain),
- > Francesco Rossi (AOU-Careggi, Italy).

### Programme of the 13<sup>th</sup> EURADOS Winter School

Time	Topic	Speaker
9:00	Welcome on behalf of the Scientific Committee	<b>Francesco Rossi</b> AOU-Careggi (Italy)
9:05	Eye lens exposure to IR: current understanding, radiobiology and dose limits	<b>Liz Ainsbury</b> PHE (UK)
9:35	Risk of radiation-induced cataract and lens opacities : results from epidemiological studies	<b>Sophie Jacob</b> IRSN (France)
10:05	Eye lens dosimetry approaches within the European EURALOC epidemiology project	<b>Lara Stuelens</b> SCK-CEN (Belgium)
10:35	Interventional cardiology procedure involving eye lens exposure	<b>Martina Nesti</b> Ospedale di Arezzo (Italy)
11:05	Coffee break	
11:30	Dosimetric units and quantities for eye lens monitoring, standards, type testing, calibration procedures and phantoms	<b>Rolf Behrens</b> PTB (Germany)
12:00	Occupational exposure of the eye lens in interventional procedures: how to assess and manage radiation dose	<b>Olivera Ciraj-Bjelac</b> Vinca (Serbia)
12:30	Eye lens monitoring: how is it implemented up to now in different countries?	<b>Eleftheria Carinou</b> EEAE (Greece)
13:00	Lunch	
14:30	Radiation protection devices of the eye lens in medical staff	<b>Jérémie Dabin</b> SCK-CEN (Belgium)
15:00	Eye lens exposure: risk assessment in different types of workplaces	<b>Robert Kollaard</b> NRG (The Netherlands)
15:30	Eye lens dosimetry: the dosimetry service perspective	<b>Tom Grimbergen</b> Mirion Tech. (The Netherlands)
16:00	Intercomparisons on eye-lens dosimeters	<b>Isabelle Clairand</b> IRSN (France)
16:30	End of the Winter School	

## Venue, transportation and accommodation

The Conference will be held at Grand Hotel Mediterraneo, a 4 star hotel situated in the Florence City Centre. Grand Hotel Mediterraneo is a 25 minutes taxi journey from Florence's "Amerigo Vespucci" / "Peretola".

### Grand Hotel Mediterraneo

Lungarno del Tempio, 44

50121 Firenze (IT)

Phone: +39 055 660241

Fax: +39 055 679560

Email: [info@hotelmediterraneo.com](mailto:info@hotelmediterraneo.com)

Website: [Hotel Mediterraneo](http://HotelMediterraneo)

The hotel made a pre-reservation of rooms for the participants at a very favourable rate.

**The organization strongly suggests that hotel reservations should be made as soon as possible.**

Room rates	Until January, 13 <sup>th</sup> 2020	After January, 13 <sup>th</sup> 2020
Double room for Single Use	€ 72,00	Room availability and rate on request
Twin/Double Room	€ 82,00	Room availability and rate on request

[Reservation Form](#)



[Conference Venue](#)



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## Local organisation

- > Francesco Rossi (AOUC)
- > Marco Caresana (Polimi)
- > Lorenzo Martellini (Pixel)

## Contact

### Francesco Rossi

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## Registration

Registration should be done online at [www.eurados-registration.org](http://www.eurados-registration.org) until 17 January 2020.

## Conference fee

<b>Registration and payment latest 20 December 2019</b>	<b>Registration and payment <u>after</u> 20 December 2019</b>
Full Fee: 350 €	Full Fee: 425 €
Reduced Fee <sup>1)</sup> : 300 €	Reduced Fee <sup>1)</sup> : 375 €

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

The fee includes participation in all events of AM2020, coffee breaks, lunches (on Tuesday, Wednesday and Thursday) and the conference dinner (on Wednesday).

### The fee is waived for the following participants:

- invited speakers of the Winter School,
- members of the EURADOS Council and WG chairpersons,
- two persons from companies of the industrial exhibit.

## Enquiries on registrations & payments:

Kerstin Hürkamp

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## EURADOS sponsors

EURADOS acknowledges financial support from the following institutions.

 <p>Nuclear Physics Institute of the ASCR public research institution</p>	<p>Academy of Sciences of the Czech Republic</p>
	<p>AWE Aldermaston</p>
	<p>BERTHOLD Technologies GmbH &amp; Co. KG</p>
	<p>Cavendish Nuclear Ltd</p>
	<p>CHUV-Lausanne University Hospital</p>
 <p>Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas</p>	<p>Centro de Investigaciones Energéticas Medioambien- tales y Tecnológicas</p>
	<p>Commissariat à l'Energie Atomique (CEA)</p>
	<p>Danish Health Authority</p>
	<p>Dosilab AG</p>
	<p>Dosimetrics</p>
	<p>DOZIMED S.R.L.</p>

	<p>Greek Atomic Energy Commission (EEAE)</p>
<p><b>HelmholtzZentrum münchen</b> Deutsches Forschungszentrum für Gesundheit und Umwelt</p>	<p>Helmholtz Zentrum München (HMGU)</p>
	<p>International Atomic Energy Agency (AIEA)</p>
	<p>Institute of Nuclear Physics (IFJ)</p>
	<p>Istituto Nazionale di Fisica Nucleare (INFN)</p>
	<p>Instituto Portugues de Oncologia do Porto</p>
	<p>Institut de Radioprotection et de Sûreté Nucléaire (IRSN)</p>
	<p>Istituto Superiore di Sanità (ISS).</p>
	<p>Karlsruhe Insitute of Technology (KIT)</p>
	<p>Landauer</p>
	<p>LPS-Berlin</p>

	<p>Mirion Technologies</p>
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	<p>Physikalisch-Technische Bundesanstalt (PTB)</p>
	<p>Universitat Politècnica de Catalunya (UPC)</p>
	<p>Politecnico di Milano</p>
	<p>RadPro International</p>
	<p>Ruđer Bošković Institute</p>
	<p>Seibersdorf Laboratories</p>
	<p>Studiecentrum voor Kernenergie, Belgian Nuclear Research Centre, (SCK-CEN)</p>

 Strålsäkerhets myndigheten <small>Swedish Radiation Safety Authority</small>	Swedish Radiation Safety Authority (SSM)
	Radiation and Nuclear Safety Authority (STUK)
	National Radiation Protection Institute (SURO)
	Tecnatom
	Universidade de Lisboa, Instituto Superior Técnico
	Vinca Institute of Nuclear Sciences
	Vinçotte Controlatom

## Imprint

Information in accordance with Section 5 TMG

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## Register entry

Entry in: Vereinsregister  
Register Number: VR 207982  
Register Court: Amtsgericht München