

CONFERENCE SECRETARIAT

Scientific Secretariat of the Conference

Mr Eduardo Zubizarreta

Applied Radiation Biology and Radiotherapy Section
Division of Human Health
Department of Nuclear Sciences and Applications
Tel.: +43 1 2600 21669

Mr Ahmed Meghzifene

Dosimetry and Medical Radiation Physics Section
Division of Human Health
Department of Nuclear Sciences and Applications
Tel.: +43 1 2600 21653

Email address of the scientific secretariat

icaro2@iaea.org

Participation, Grants, and Administrative Matters

Ms Martina Khaelss

Conference Services Section
Division of Conference and Document Services
Department of Management
Tel.: +43 1 2600 21315
Email: M.Khaelss@iaea.org

Conference web page

[http://www-pub.iaea.org/iaea meetings/50815/
International-Conference-on-Advances-in-Radiation-
Oncology-ICARO2](http://www-pub.iaea.org/iaea meetings/50815/International-Conference-on-Advances-in-Radiation-Oncology-ICARO2)

Please include reference number
IAEA-CN-250 in all communications.

LIST OF CO-OPERATING ORGANIZATIONS

ESTRO	European Society for Therapeutic Radiology and Oncology
ICEC	International Cancer Expert Corps
AAPM	American Association of Physicists in Medicine
IOMP	International Organization for Medical Physics
JASTRO	Japanese Society for Radiation Oncology
ABS	American Brachytherapy Society
FARO	Federation of Asian Organizations for Radiation Oncology
IARC	International Agency for Research on Cancer
ISRRT	International Society of Radiographers and Technologists
MPWB	Medical Physicists without borders
SEAROG	South East Asian Radiation Oncology Group
UICC	Union for International Cancer Control
ICRU	International Commission on Radiation Units & Measurements
AFROG	African Radiation Oncology Group
ASTRO	American Society for Radiation Oncology
ALATRO	Asociación Latinoamericana de Terapia Radiante Oncológica
ALFIM	Asociación Latinoamericana de Física Médica
EFOMP	European Federation of Organisations For Medical Physics
FAMPO	Federation of African Medical Physics Organisations



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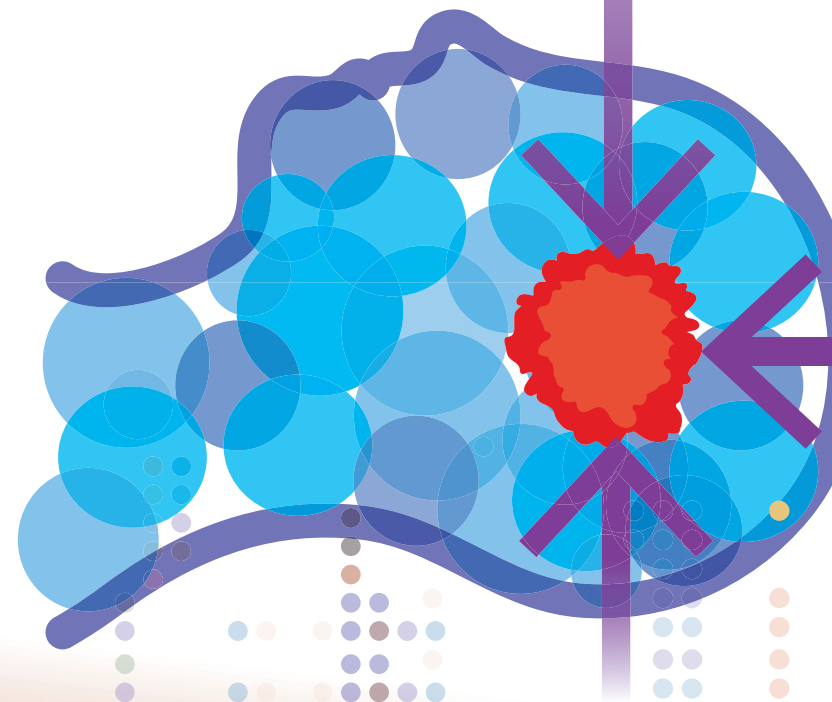
International Conference on

Advances in Radiation Oncology

Vienna, Austria
20–23 June 2017

Organized by the International Atomic Energy Agency

#ICARO2



IAEA-CN-250

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Background and objectives

The conference is aimed at defining the current role and future potential of technological, medical physics and molecular/biological innovations for their incorporation into routine clinical practice in radiation oncology. It will also provide a forum where advances in technology, best practices and quality assurance methodologies can be disseminated and scientific knowledge exchanged. It will also critically examine the pivotal role of emerging radiotherapy techniques in tackling the health challenges common to many Member States.

The conference follows the success of ICARO1 which was held in 2009.

The main objectives of the conference are:

- To review the current role and future potential of technological, medical physics and molecular/biological innovations for clinical use in radiation oncology;
- To explore the applications of improved imaging tools in treatment planning;
- To review the current status of evidence based recommendations for the treatment of common cancers;
- To review the latest developments in medical dosimetry and dose auditing procedures for new radiotherapy techniques;
- To review the current status of comprehensive audits in radiotherapy;
- To review resource sparing approaches in clinical radiotherapy practice;
- To exchange information on the current advances and implementation challenges in the field among leading experts;
- To define future challenges and directions in the clinical use of radiotherapy.

Audience

The main target audience comprises:

- Radiation oncologists;
- Radiobiologists;
- Medical physicists;
- Technologists.

The conference would also be of interest to scientists, researchers and bio-medical engineers working in the field of radiotherapy.

Programme structure and main topics

The conference programme will include plenary and parallel sessions, poster sessions, round table discussions, lunch fora and teaching lectures.

Both academic and practice-based papers under the umbrella of the following topics will be considered:

- Technological advances and challenges;
- Roadmap for setting up modern radiation oncology facilities;
- New treatment and imaging techniques and clinical evidence;
- Health economics in radiotherapy;
- Developments in treatment planning;
- Small field dosimetry;
- Auditing procedures;
- Personalized medicine;
- Advances in the treatment of recurrent patients;
- National cancer control strategies;
- Developments in quality assurance and new approaches to quality management;
- Safety in radiation therapy;
- Intensity modulated radiotherapy, including arc-based approaches;
- Telemedicine;
- Radiobiology;

- Combined therapies;
- Paediatric radiotherapy;
- Clinical research;
- Applied brachytherapy;
- Education and training of professionals.

KEY DEADLINES

31 October 2016 Electronic submission of extended synopsis including submission of Forms A and B through official channels

31 October 2016 Submission of Grant Application (Form C) and Participation Form (Form A) through official channels

15 January 2017 Notification of acceptance of paper

Credits

#ICARO2 is granted with 21 European CME credits and is designated for IBAMP credits (in process)..

REGISTRATION

No registration fee is charged.

All participants should:

- **Submit Participation Form A (download here) through their national authority or one of the coop organizations listed at the back of this flyer.**
- and
- **Register online at <http://www-pub.iaea.org/iaeameetings/50815/International-Conference-on-Advances-in-Radiation-Oncology-ICARO2>.**

LANGUAGE

The conference will be held in English.