

PLACE OF EVENT / DIRECTIONS



ORGANISATION DETAILS

Contact:

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Certification:

Accredited at the state medical association Baden-Württemberg with five continuous medical education training credits.

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Admission is free:

We ask for a brief informal registration via E-mail.

INVITATION

DEPARTMENT OF RADIATION ONCOLOGY

Universitätsmedizin Mannheim
Medical Faculty Mannheim
Heidelberg University

15th Summer Workshop

**Image Guided and
Robotic Radiotherapy**
Saturday, 01. September 2018
9:00 – 14:00

Alte Brauerei, Röntgenstrasse 7
Lecture Room H02, EG
68167 Mannheim

opposite to
University Medical Centre Mannheim



Medizinische Fakultät Mannheim
der Universität Heidelberg
Universitätsklinikum Mannheim



PREAMBLE

Dear Colleagues,

We would like to invite you to our 15th Summer Workshop on **Image Guided and Robotic Radiotherapy**.

In this year, we divide the workshop in two sessions, robotics and image guidance.

After a short overview of how robotics helped so far in treating tumors, recent results and developments in this field such as robotics in urology, brachytherapy under MRI control, and electronic brachytherapy for glioblastoma treatment are presented.

In the second session, image guidance and aspects that relate to the medical physics issues are the main focus. We have hereby selected a set of interesting questions from dosimetry, planning to digital health (UMM 4.0).

The symposium and the workshop address physicians, physicists in radiation oncology and neighbouring disciplines as well as students in medical physics or biomedical engineering. Certification will be requested from the Landesärztekammer.

It is a pleasure for us to welcome you in Mannheim.

Prof. Dr. F. Wenz **Dr. F. Giordano**

Prof. Dr. J. W. Hesser **Dr. G. Hildenbrand**

AGENDA

Lecture times include 3 min discussion!

08:30	Registration	
09:00	Welcome	F. Wenz
	Session 1 (Robotics)	
	Moderation	G. Hildenbrand
09:05	IORT-from Hand and Eye Guidance to Image Guidance with AR	F. Wenz
09:25	Precision IORT - Modern Robotic and Adaptive Solutions	S. Clausen
09:45	Intraoperative Radiotherapy in Glioblastoma	F. Giordano
10:05-10:30	Coffee Break	
	Session 2 (Image-Guidance)	
	Moderation	F. Giordano
10:30	Prototyping Sensor Arrays for Medical Dosimetry	P. Zygmanski
10:50	Agglomeration Dynamics of Incorporated Nanoparticles	E. Sajo
11:10	Radiotherapy without Margins	W. Ngwa
11:30	Mathematical Modeling of Multi-Modality Therapy: Combining Radiotherapy with Biological Agents	C. Grassberger
11:50	Biodosimetry via Advanced Nanoscopic Monitoring	G. Hildenbrand
12:10	Individualized Treatment Planning in Nuclear Medicine	L. Jimenez
12:30	The MIRACUM-Consortium: Tapping Clinical Data for Research	T. Ganslandt
12:50	Conclusion	F. Wenz
13:00	Ceremony, Award of master Certification "Medical Physics" and "Biomedical Engineering"	
13:20	Lunch and Poster Session	

MODERATORS & SPEAKERS

Prof. Dr. Frederik Wenz
Dept. of Radiation Oncology
University Medical Centre Mannheim

Dr. Sven Clausen
Dept. of Radiation Oncology
University Medical Centre Mannheim

Dr. Frank Giordano
Dept. of Radiation Oncology
University Medical Centre Mannheim

Prof. Dr. Piotr Zygmanski
Harvard Medical School and Brigham & Women's Hospital
Dana Farber Cancer Institute, Boston, MA, USA

Prof. Dr. Erno Sajo
Dept. of Physics and Applied Physics
University of Massachusetts Lowell, USA

Dr. Wil Ngwa
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&
Dept. of Physics and Applied Physics
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Clemens Grassberger
Harvard Medical School and Massachusetts General Hospital
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Dr. Georg Hildenbrand
Dept. of Radiation Oncology
University Medical Centre Mannheim

Luis Jimenez
Medical Radiation Physics, Department of Nuclear Medicine
Ulm University, Germany

Prof. Dr. Thomas Ganslandt
Dept. of Biomedical Informatics
University Medical Centre Mannheim