

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

14th Summer Workshop

**Image Guided and
Robotic Radiotherapy**
Saturday, 02. September 2017
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 14th 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. M. Blessing**

akkreditiert durch

AGENDA

Lecture times include 3 min discussion!

08:30	Registration	
09:00	Welcome	F. Wenz
	Session 1 (Robotics)	
	Moderation	M. Blessing
09:05	17 Years of Intraoperative Radiotherapy: Robotics Taking Over	F. Wenz
09:25	"MRI-guided Interventions"	U. Attenberger
09:45	Robotic Surgery in Urology	M. Ritter
10:05	Intraoperative Radiotherapy in Glioblastoma	F. Giordano

10:25-10:50 Coffee Break

	Session 2 (Image-Guidance)	
	Moderation	F. Giordano
10:50	Small/large field dosimetry and verification for Single-isocenter multiple-lesion treatments	P. Zygmanski
11:10	The effect of clustering on the dose distribution about gold nanoparticles	E. Sajo
11:30	Multifunctional Image-guided Radiotherapy Biomaterials	W. Ngwa
11:50	Biological optimization of intensity modulated proton therapy	D. Giantsoudi
12:10	Imaging for Treatment Planning in Molecular Radiotherapy	G. Glatting
12:30	UMM 4.0 – Health IT from paper to tablet and from proprietary to open standards	L. Jahnke F. Wenz
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. Frank Giordano
Dept. of Radiation Oncology
University Medical Centre Mannheim

Dr. Lennart Jahnke
CIO, University Medical Centre Mannheim

Dr. Manuel Blessing
Experimental Radiation Oncology
University Medical Centre Mannheim

Prof. Dr. Jürgen Hesser
Experimental Radiation Oncology
University Medical Centre Mannheim

Dr. Ulrike Attenberger
Institute for Radiology and Nuclear Medicine
University Medical Centre Mannheim

Prof. Dr. Gerhard Glatting
Medical Radiation Physics, Department of Nuclear Medicine
Ulm University, Germany

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

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

Dr. Wil Ngwa
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Dr. Drosoula Giantsoudi
Harvard Medical School and Massachusetts General Hospital
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Prof. Dr. Manuel Ritter
Urological Clinic
University Medical Centre Mannheim