

PLACE OF EVENT / DIRECTIONS

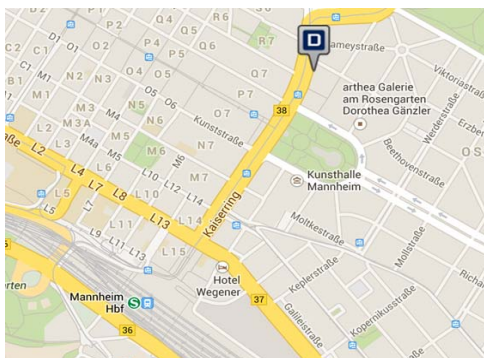
**Dorint Kongresshotel Mannheim
Hörsaal
Friedrichsring 6
68161 Mannheim**
www.dorint.com/mannheim

Directions

Take the A67 toward Intersection.
Take the "Mannheim-Mitte" exit.
Continue straight ahead ("Augustaanlage") towards
the city centre as far as the water tower
(signs for "CCR / Rosengarten" and
"Dorint Kongresshotel Mannheim").
Turn right at the major junction beside the
water tower (Friedrichsring).
The Dorint Kongresshotel Mannheim is 50 m
further ahead to your right.

Schedule for the trip from Frankfurt Airport
to Mannheim.

www.bahn.de



ORGANISATION DETAILS

Contact:

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Certification:

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

For support we thank the following sponsors:

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Admission is free:

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

On Friday August 29th we also offer
an admission-free Symposium on
„Flattening Filter Free: Qualität,
Sicherheit, Geschwindigkeit ein
Widerspruch?“ s. attached flyer.

INVITATION

DEPARTMENT OF RADIATION ONCOLOGY

Universitätsmedizin Mannheim
Medical Faculty Mannheim
Heidelberg University

11th Summer Workshop

**Image Guided and
Robotic Radiotherapy
Saturday, 30. August 2014
9:00 – 14:30**

**Dorint Kongresshotel Mannheim
Hörsaal
Friedrichsring 6
68161 Mannheim**

**Tel.: +49 621 1251-961
Fax: +49 621 1251-969**



Medizinische Fakultät Mannheim
der Universität Heidelberg
Universitätsklinikum Mannheim



PREAMBLE

Dear Colleagues,

We would like to invite you to our 11th Summer Workshop on **Image Guided and Robotic Radiotherapy**.

Radiotherapy is one of the key pillars of cancer treatment. Optimal individual treatment in radiotherapy needs accurate diagnostics and precise therapy. The development of new diagnostic and treatment modalities and its incorporation in clinical use is based on contributions from many disciplines e.g. from computer science (big data), imaging physics (detectors, ultrasound CT, simulation and planning). Special highlights are new techniques for pre-clinical medicine based on small animal experiments. Examples are small animal PET/SPECT/CT for imaging as well as dedicated small animal IGRT devices for radiotherapy that were developed and installed at Medical Faculty Mannheim of Heidelberg University this year.

The symposium addresses physicians, physicists in radiation oncology and neighbouring disciplines as well as students in medical physics or biomedical engineering. The symposium is certified by the Landesärztekammer with 5 credits points.

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

Prof. Dr. F. Wenz

Prof. Dr. G. Glating

Prof. Dr. J. Hesser

AGENDA

Lecture times include 5 min discussion!

9:00	Welcome Moderation	F. Wenz J. Hesser
9:10	Physics simulations to exploit the biological characteristics of proton beams in radiation oncology	H. Paganetti
9:35	Thin film radiation detectors for medical imaging and dosimetry applications: Part 1	P. Zygmanski
10:00	Thin film radiation detectors for medical imaging and dosimetry applications: Part 2	E. Sajo
10:25	LDR Brachytherapy Planning	Ch. Guthier
10:50	Brachysimulator	J. Hesser
11:05	Quality assurance of IMRT-plans by EPID-dosimetry	S. Fink
11:30 – 12:15	Break and Poster Session Moderation	G. Glating
12:15	Big data and medicine	R. Stotzka
12:40	Ultrasound CT	N. Ruiter
13:05	A small animal IGRT device reversibly converted from a micro-CT	M. Felix
13:30	PET for treatment planning in radiotherapy	J. van den Hoff
13:55	Development of radiopharmaceuticals using a small animal PET/CT	M. Roscher
14:20	Conclusions	F. Wenz

Ceremony: Award of master certification “Medical Physics” and “Biomedical Engineering”

MODERATORS & SPEAKERS

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

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

Prof. Dr. Gerhard Glating
Medical Radiation Physics/Radiation Protection
University Medical Centre Mannheim

Prof. Harald Paganetti
Dept. of Radiation Oncology
MGH Massachusetts General Hospital, Boston, USA

Prof. Piotr Zygmanski
Brigham & Women's Hospital
Harvard Medical School, Boston, USA

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

Dipl.-Phys. Christian Guthier
Experimental Radiation Oncology
University Medical Centre Mannheim

Dipl.-Phys. Simone Fink
Klinik und Poliklinik für Strahlentherapie
Universität Würzburg

Dr. Rainer Stotzka
Institute for Data Processing and Electronics (IPE)
Karlsruhe Institute of Technology (KIT)

Dr. Nicole Ruiter
Institute for Data Processing and Electronics (IPE)
KIT Karlsruhe Institute of Technology

M. Sc. Manuela Felix
Medical Radiation Physics/Radiation Protection
University Medical Centre Mannheim

Prof. Dr. J. van den Hoff
Positron Emission Tomography Centre,
Institute of Radiopharmaceutical Cancer Research
Helmholtz-Zentrum Dresden-Rossendorf, Germany

Dr. Mareike Roscher
Molecular Imaging and Radiochemistry
Department of Clinical Radiology and Nuclear Medicine
Medical Faculty Mannheim of Heidelberg University