

Anmeldung/Registration:

Lehrgangsg Gebühr/Course fee	EUR plus 19% MwSt./VAT	Please select
Teilnahmekategorie/Attendance option <small>*Slang titles as homage to our historical coal mining area Ruhrgebiet called „Ruhrpott“ with its characteristic slang</small>		↓
“Medical Device MRI Safety Specialist” ⁺ “Volle Kanne*/Full Tilt” 29/30/31/Oct/2020 (Lectures & MRI hands-on):	1595	
“Hömma – Kuckma*/ Listen & Watch” 29/30/31/Oct/2020 (Lectures only & MRI hands-on for onlooker)	1415	

Titel, Vorname, Name/Title, First name, Name

Funktionstitel/Function title

Organisation

Straße, Haus-Nr./Street, Number

PLZ, Ort/City, Zip-code

Telefon, Fax/Telephone, Fax

Email

Land/Country

Datum, Unterschrift/Date, Signature

Bitte senden Sie Ihre Anmeldung an:
Please send your registration to:
Fax: +49-209-1497730-88
Email: seminar@mri-star.com

Informationen/Information:

Zahlungsbedingungen/Terms of payment:

Der Betrag wird 2 Wochen nach Erhalt der Rechnung zur Zahlung fällig. Die Lehrgangsg Gebühr ist auf folgendes Konto bei der Sparkasse Gelsenkirchen zu überweisen:

The amount is due for payment 2 weeks after receipt of the invoice. The course fee must be paid to the following bank account or via CREDIT CARD:

Bankname: Sparkasse Gelsenkirchen
Konto-Nr. / Account No.: 160 134 544
BLZ / Bank Code Number 420 500 01

Discounts:

Students, employees of universities and employees of start-up companies (<3 years) qualify for a 20% discount. Please send in a copy of an appropriate certificate proving your status. Every 2nd and further registrant from the same organization applies for a 15% discount.

Die Anmeldung ist erst mit dem Erhalt der Anmeldebestätigung und Bezahlung der Lehrgangsg Gebühr gültig. Registration is valid only with receipt of confirmation and payment of the course fee.

Ein Rücktritt ist bis 6 Wochen vor Beginn kostenlos möglich. Nach diesem Termin berechnen wir 50% der Lehrgangsg Gebühr. Bei Rücktritt innerhalb der letzten 7 Tage sind 80% der Lehrgangsg Gebühr fällig. Erfolgt der Rücktritt später oder nimmt der Teilnehmer oder ein mitgeteilter Ersatzteilnehmer nicht am Lehrgang teil, sind wir berechtigt, die komplette Teilnahmegebühr einzubehalten.

A cancellation is up to 6 weeks before free of charge. After that date we charge 50% of the registration fee. For a cancellation within the last 7 days 80% are charged of the course fee. If the cancellation takes place later or the participant or a backup does not attend in the course we are entitled to deduct the full participation fee.

In den Lehrgangsg Gebühren sind enthalten: Seminar Unterlagen, Zertifikat⁺ “Medical Device MR Safety Specialist”, 3 x Frühstücksimbiss, 2 x Mittagessen, 1 x Abendessen, sowie kalte und warme Getränke.

The course fees include: script, certificate⁺ “Medical Device MR Safety Specialist”, 3 x breakfast snack, 2 x lunch, 1 x dinner and hot as well as cold drinks.

Die Teilnehmerzahl ist begrenzt. Die Anmeldungen werden in der Reihenfolge ihres Eingangs berücksichtigt. Bei zu geringer oder zu hoher Teilnehmerzahl behält sich die MR:comp vor, einen Ausweichtermin anzubieten.

The number of participants is limited. The places will be assigned in sequence of the receipt of registrations. MR:comp reserves the right to offer an alternative seminar date, if the number of participants is too low or too high.

Wir würden uns freuen, Sie als Teilnehmer begrüßen zu dürfen!

We would be pleased welcoming you as attendee!



Hands-on MR Seminar

Seminarort/Seminar location

MR:comp GmbH
Conference room
Buschgrundstr. 23, 45894 Gelsenkirchen,
Germany

The “Medical Device MR Safety Specialist” Magnetic Resonance Imaging - MR Safety and Compatibility of Medical Devices

29, 30 & 31 Oct 2020

Veranstalter/Organizer




MRI-STaR GmbH & MR:comp GmbH

www.mri-star.com

Buschgrundstr. 23

45894 Gelsenkirchen, Germany

In cooperation with
Technical committee “MR Technology in Medicine”

 MRI-StaF Seminar Day 1:	 MRI-StaF Seminar Day 2:	 MRI-StaF Seminar Day 3:
08:45 - 09:00 Welcome reception with breakfast	08:30 - 09:00 Breakfast	08:30 - 09:00 Breakfast
09:00 – 09:30 Introduction (Schaefers)	09:00 - 09:45 The Anatomy of modern Gradient Systems & its related Safety Aspects (Schmitt) webex	09:00 - 10:00 MR safety and compatibility II (Schaefers) of medical devices (and items) - Finding the “worst-case” - Labeling of medical devices for the MR environment
09:30 - 09:45 Virtual visit of the MR system (Kugel)		
09:45 - 11:15 Basics of MR physics and technical aspects I (Kugel) - Static magnetic field, RF-Field, Gradient-field - MR system components - Refresh of the physical principle - Physics of MRI (spin, magnetization, MR signal) - MR image acquisition (RF pulse sequences, gradients, geometry, signal to noise and contrast, contrast agents) - MR Imaging techniques (fast imaging, perfusion, diff.)	09:45 - 10:00 Coffee break	10:00 - 10:10 Coffee break
	10:00 - 10:50 MRI from clinical view I (Melzer) - Diagnostics & Therapy - Surgery & Interventions (Biopsy, Ablation (RF, Laser), etc.)	10:10 - 11:10 Practical training: Behavioral measures in MR routine (Implant labeling research) (Schaefers) - Implant research - Case studies
	10:50 - 11:00 Coffee break	
	11:00 - 11:50 MRI from clinical view II (Melzer) - Robotics, Navigation, Visualization of implants and instruments	11:10 - 11:20 Coffee Break
11:15 - 11:30 Coffee break	11:50 - 12:00 Coffee break	11:20 - 12:40 Assessment of MR safety for patients with active implantable med. devices (Engels) - ISO/TS 10974: Requirements for active implantable medical devices - Potential physical relevance for passive devices
11:30 - 12:00 Safety Instruction (Kugel)	12:00 - 13:30 Computational methods, RF-safety & implants (Zylka) - Research & Trends related to MR safety - Numerical simulation and modeling	
12:00-12:10 Grab a coffee	13:30 - 14:30 Lunch break	12:40 - 13:30 One Choice Test /Discussion & Farewell
12:10-13:40 MR safety and compatibility I (Schaefers) of medical devices (and items) Significant hazards MRI I item-specific - Interactions of items (incl. implants) within the MR environment (static magnetic field, switched gradient and RF field) - Current technical standards & guidance, MR testing methods		14:30 - 15:30 Hands-on: MR Safety (Schaefers) - RH-induced heating experiment
	13:40 - 14:25 Lunch break	15:30 - 16:00 Coffee break/ Transfer to scanner
14:25 - 16:00 Significant hazards MRI II (MR safety, the MR system and the MR worker – IEC 60601-2-33) (Engels) - General terms - Presentation of hazards - Technology of superconductivity and potential risks of cryogenes - Laser	16:00 - 18:00 Hands on: MR intervention (Melzer) - Your first MR-guided puncture of a tumor phantom - Learn about the difficulties in technique	Dr. rer. nat. H. Kugel Institute for Clinical Radiology, University of Munster, Germany
		18:00– 18:30 Final discussion
16:00 – 16:30 Coffee break/Transfer to scanner	19:00-22:00 Social event – “Visit the Ruhrpott” with Get together dinner	Dr. rer. nat. H. Engels MR Safety Consultant, MR:comp and former MR Safety Director Philips Healthcare, The Netherlands
16:30-18:30 Hands-on: MR basics (Kug./Sch.) - Preventive measures and safety in the MR environment (staff & items) - Hands-on, Basic MR imaging: Sequence selection, planning geometry and contrast - MR imaging: image quality, artifacts		Target audience: The seminar is especially designed for the MR safety technical interests of auditors and quality/regulatory affairs managers, product and sales managers, R&D managers/engineers, MR clinicians, MR physicists. The seminar language is English. For a German-speaking seminar, please send us your request
	18:30-19:15 Final discussion with snack	
		<i>Program is subject to changes</i>