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DEUTSCHE RÖNTGENGESELLSCHAFT
Gesellschaft für medizinische Radiologie e.V.

INFORMATION

Venue
Berliner Medizinhistorisches Museum
Charité Campus Mitte
Hörsaalruine
Charitéplatz 1 (on the premises: Virchowweg 16), 10117 Berlin

Online-Registration / Contact
www.drgakademie.de (event calendar)
Ms. Birgit Engelhardt
Phone: +49 (0)30-916 070 16
Mail: engelhardt@drg.de
Deutsche Röntgengesellschaft e. V.
Ernst-Reuter-Platz 10, 10587 Berlin

Ms. Sandra Köppchen
Phone: +49 (0)30-450 627245
Mail: sandra.koeppchen@charite.de
Ultrasound Center of the Charité
Charitéplatz 1, 10117 Berlin

Further information at:
www.ultrasoundsymposium.org

Registration Fee

DRG-member day ticket 17.01.2018	80 €
Non-member day ticket 17.01.2018	100 €
DRG-member ticket 17.-18.01.2018	120 €
Non-member ticket 17.-18.01.2018	150 €
Evening Event	30 €

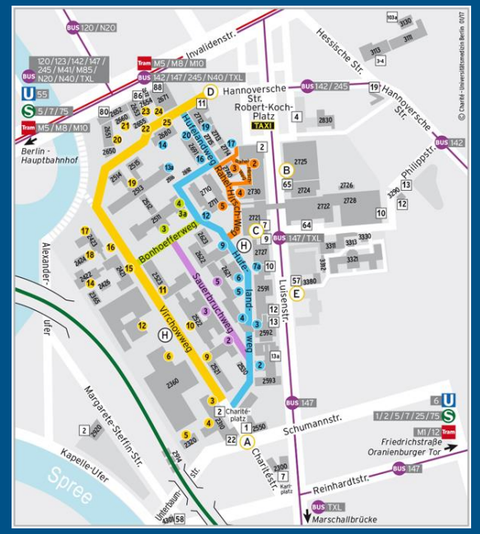
Certification (in application process)
Ärztekammer Berlin

Scientific director/organisation
Prof. Dr. med. Thomas Fischer
Universitätsmedizin Berlin - Charité Campus Mitte
Institut für Radiologie
Prof. Dr.–Ing. Horst K. Hahn
Fraunhofer Institute for Medical Image Computing, Bremen

DEUTSCHE RÖNTGENGESELLSCHAFT
Gesellschaft für medizinische Radiologie e.V.

HOW TO GET THERE

Site map



Berliner Medizinhistorisches Museum
Campus Charité Mitte
Charitéplatz 1
10117 Berlin

DEUTSCHE RÖNTGENGESELLSCHAFT
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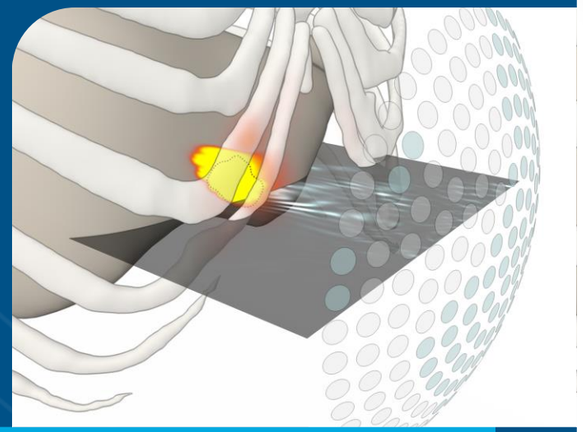

The Future of Medical Ultrasound

17 - 18 January 2018, Berlin

Akademie für Ärzte und Naturwissenschaftler in der Radiologie

AG Ultraschall
in der Deutschen Röntgengesellschaft

WELCOME

Dear Colleagues,

The recent years have shown tremendous advancement of medical ultrasound in terms of image quality, image resolution, device miniaturization, specific contrast agents, therapeutic approaches, and a number of microstructural imaging techniques including shearwave elastography.
This symposium will address the future potential of ultrasound technologies and solutions for medical diagnosis and therapy. A special session will offer a guided tour to the newly designed Ultrasound Center of the Charité.
Experts at a meeting for invited participants will only discuss strategic issues behind medical ultrasound. They will also set up the cornerstones of a white paper that addresses the research and development agenda for the next decade.
The symposium includes a reception and will take place in the reconstructed ruin of Charité's former Rudolf Virchow lecture hall with its unique historic charm.

Yours sincerely

Prof. Dr. med. Thomas Fischer

Prof. Dr.-Ing. Horst K. Hahn

This symposium is a cooperation between the Arbeitsgemeinschaft Ultraschall of the Deutschen Röntgengesellschaft e. V, the Ultrasound-Center of the Charité – Universitätsmedizin Berlin and the Fraunhofer Institute for Medical Image Computing MEVIS in Bremen.

AG Ultraschall in der Deutschen Röntgengesellschaft

CHARITÉ UNIVERSITÄTSMEDIZIN BERLIN

Fraunhofer

DEUTSCHE RÖNTGENGESELLSCHAFT
Gesellschaft für medizinische Radiologie e.V.

PROGRAMME

Wednesday, 17 January 2018

Opening Session

10:00	Opening and introduction *(T. Fischer, H. Hahn)* Welcome address *(B. Hamm, H. Maier)*

Session I: Ultrasound Physics

11:00	Ultrafast functional ultrasound imaging *(C. de Korte)* Time-harmonic elastography for soft tissue mechanical parameter quantification *(I. Sack)* Ultrasonic research systems: need, technologies, applications *(S. Tretbar)* Ultrafast imaging and superresolution ultrasound *(M. Tanter)* The role of biophysical modeling in high precision ultrasound therapy *(T. Preusser)*

12:30 Lunch Break

Session II: Novel Applications and Therapeutic Ultrasound

13:30	Ultrasound for diagnosis and interventional procedures in pancreatic cancer *(M. D'Onofrio)* New trends in cardiac ultrasound *(F. Knebel)* Non-invasive ultrasound cardiac therapy *(M. Pernot)* Bone quantitative ultrasound – dead or alive? *(K. Raum)* Advances in ultrasound diagnostic imaging clinical applications *(C. Simm)*

15:00 Coffee Break

Session III: Contrast-Enhanced Ultrasound

15:30	Monitoring of the EVAR therapy with CEUS and image fusion *(D.-A. Clevert)* CEUS for innovative liver tumor diagnostics and interventions – percutaneous and intraoperative *(E.-M. Jung)* Longitudinal integration of the interdisciplinary ultrasound curriculum *(U. Teichgräber)* Interdisciplinary ultrasound: Opening a comprehensive toolbox *(T. Fischer)* CEUS for earlier cancer detection and drug delivery *(J. Willmann)*

Guided Tour of the New Ultrasound Center (Charité)

17:00	From clinical routine to an interdisciplinary network at the Charité Ultrasound Center *(Y. Dörffel, O. Haase, M. Möckel, G. Pecher, C. Stephan)*

PROGRAMME

Thursday, 18 January 2018

Session IV: Autonomous Ultrasound

9:00	The coming revolution in transducer technologies and smart image acquisition *(W. Crooijmans)* The coming revolution in automized data analysis and image display technologies *(B. Mumm)* Hand held, eatable, and wearable ultrasound imaging systems *(B. Khuri-Yakub)* Computer-assisted guidance and automated image interpretation in point-of-care ultrasound applications *(S. Aylward)*

10:30 Coffee Break

Session V: Contrast Agents, Theranostics, and Multiparametric Ultrasound

11:00	Contrast-enhanced ultrasound: New diagnostic and therapeutic opportunities *(S. Feinstein)* Microbubbles for ultrasound diagnosis and therapy *(F. Kiessling)* Multi-parametric ultrasound joins multi-parametric MRI to battle prostate cancer *(H. Huisman)* Regulatory prospective requirements (FDA/EMA) for contrast agent development *(K. Shamsi)*

12:30 Lunch Break

Guided Tour of the New Ultrasound Center (Charité)

14:00	Plenary Discussion

15:00 Coffee Break

15:30	Wrap-up / Closing Remarks

16:00 Berlin Museum of Medical History at the Charité

REFERENTEN

Prof. Stephen Aylward
Kitware/University of North Carolina, Chapel Hill

Prof. Dr. h. c. (TSM-Univ.) Dirk-André Clevert
Medical Center Ludwig-Maximilians University, Munich

Wim Crooijmans, Philips, Eindhoven

Prof. Mirko D'Onofrio, University of Verona

Prof. Steven Feinstein,
Rush University Medical Center, Chicago

Prof. Thomas Fischer, Charité Berlin

Prof. Horst Hahn, Fraunhofer MEVIS, Bremen

Prof. Bernd Hamm, Charité Berlin

Prof. Henkjan Huisman,
Radboud University Medical Center, Nijmegen

Prof. Ernst-Michael Jung,
University Hospital Regensburg

Prof. Butrus Khuri-Yakub, Stanford University

Prof. Fabian Kiessling, University Hospital Aachen

Prof. Fabian Knebel, Charité Berlin

Prof. Chris de Korte
Radboud University Medical Center, Nijmegen

Prof. Hans Maier
Member of Fraunhofer MEVIS Board, Berlin

Prof. Martin Möckel, Charité Berlin

Bernhard Mumm, TOMTEC, Munich

Dr. Mathieu Pernot, Langevin Institute, Paris

Prof. Tobias Preusser, Fraunhofer MEVIS, Bremen

Prof. Kay Raum, Charité Berlin

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Dr. Christoph Simm, Toshiba Medical, Zoetermeer

Prof. Mickael Tanter, Langevin Institute, Paris

Prof. Ulf Teichgräber, University Hospital Jena

Steffen Tretbar, Fraunhofer IBMT, St. Ingbert

Prof. Jürgen Willmann, Stanford University

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