INFORMATION

Venue
Berliner Medizinhistorisches Museum
Chanté Camp, Mitte
Hörsaalruine
Chantéplatz 1 (on the premises: Virchowweg 16), 10117 Berlin

Online-Registration / Contact
www.ddgakademie.de (event calendar)
Ms. Birgit Engelhardt
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Deutsche Röntgengesellschaft e. V.
Ernst-Reuter-Platz 20, 10587 Berlin

Ms. Sandra Kiepchen
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Ultrasound Center of the Chanté
Chantéplatz 1, 10117 Berlin

Further information at:
www.ultrasoundsymposium.org

Registration Fee
DRG-member/weekday 12.01.2018 80 €
Non-member/weekday 12.01.2018 100 €
DRG-member/blend 12-18.01.2018 120 €
Non-member/blend 12-18.01.2018 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

HOW TO GET THERE

Site map

The Future of Medical Ultrasound
17-18 January 2018, Berlin

Berlin Medizinhistorisches Museum
Campus Charité Mitte
Chantéplatz 1
10117 Berlin
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.

Expects at a meeting for invited participants 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. med. Horst K. Hahn

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

AG Ultrasschall in der Deutschen Röntgengesellschaft

Charité—Universitätsmedizin Berlin

Fraunhofer MEVIS

PROGRAMME

Wednesday, 17 January 2018

Opening Session

10:00 Opening and introduction (T. Fischer, H. Hahn)

Welcome address (R. Hamm, M. Malek)

Session I: Ultrasound Physics

11:00 Ultrasonic functional ultrasound imaging (C. deKorte)

Time-harmonic elastography for soft tissue mechanical parameter quantification (F. Sax)

Ultrasonic research systems: needs, technologies, applications (S. Tretbar)

Ultrasonic imaging and superresolution ultrasound (M. Tanter)

The role of biophysical modeling in high precision ultrasound therapy (F. Peuser)

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. Perrot)

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 EWAR therapy with CEUS and image fusion (L. A. Clevert)

CEUS for innovative liver tumor diagnostics and interventions—percutaneous and intraoperative (E.-M. Jung)

Longitudinal integration of the interdisciplinary ultrasound curriculum (F. Teschgenber)

Interdisciplinary ultrasound: Opening a comprehensive toolbox (F. 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. Dörfel, O. Hause, M. Möckel, C. Pechler, C. Stepfani)

Thursday, 18 January 2018

Opening Session

10:00 The coming revolution in transducer technologies and smart image acquisition (K. Crooijmans)

The coming revolution in automated data analysis and image display technologies (B. Mumford)

Hand held, eatable, and wearable ultrasound imaging systems (R. Kishi-Yakub)

Computer-assisted guidance and automated image interpretation in point-of-care ultrasound applications (S. Ayward)

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)

Multiparametric ultrasound (joint multi-parametric MRI to battle prostate cancer (H. Huisman)

Regulatory prospective requirements (FADAEMA) for contrast agent development (K. Schmidt)

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 Ayward
Kline Institute of North Carolina, Chapel Hill

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

Prof. 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 Heidelberg

Prof. Butrus Khuri-Yakub, Stanford University

Prof. Fabian Kiesling, 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 Mumford, COMTEC, Munich

Dr. Mathieu Perrot, Langevin Institute, Paris

Prof. Tobias Preusser, Fraunhofer MEVIS, Bremen

Prof. Kay Raum, Charité Berlin

Prof. Ingolf Sack, Charité Berlin

Dr. Kohlan Shamsi, RadiMI BRITI, New York

Prof. Christoph Simm, Toshiba Medical, Zuerenmeer

Prof. Mickael Tanter, Langevin Institute, Paris

Prof. Ulf Teschgenber, University Hospital Jena

Prof. Jürgen Wittmann, Stanford University