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## 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)  
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Deutsche Röntgengesellschaft e. V.  
Ernst-Reuter-Platz 10, 10587 Berlin

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Ultrasound Center of the Charité  
Charitéplatz 1, 10117 Berlin

Further information at:  
[www.ultrasoundsymposium.org](http://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)

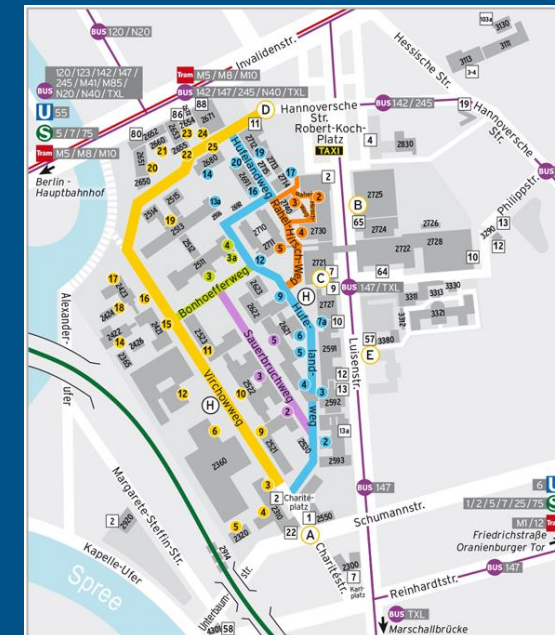
Ärztchamber Berlin

### Scientific director/organisation

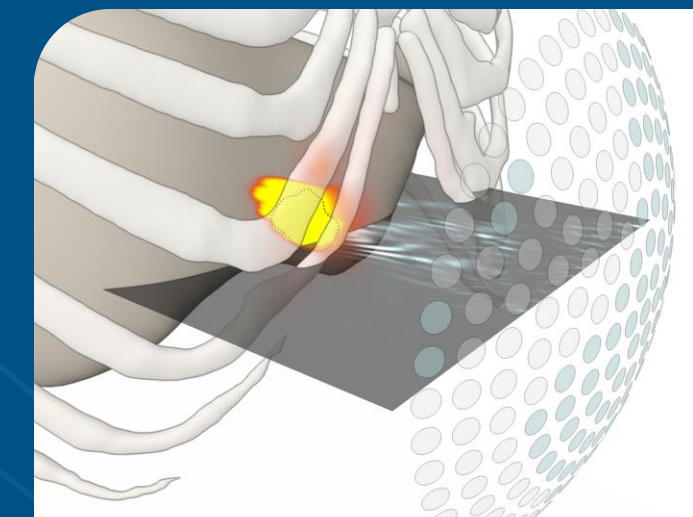
**Prof. Dr. med. Thomas Fischer**  
Universitätsmedizin Berlin - Charité Campus Mitte  
Institut für Radiologie  
**Prof. Dr.-Ing. Horst K. Hahn**  
Fraunhofer Institute for Medical Image Computing, Bremen

## HOW TO GET THERE

### Site map



Berliner Medizinhistorisches Museum  
Campus Charité Mitte  
Charitéplatz 1  
10117 Berlin



The Future of Medical Ultrasound

17 - 18 January 2018, Berlin

Akademie  
für Fort- und Weiterbildungen in  
Radiologie

## 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.



## 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*)

### 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*)

### 19:30 Conference Dinner

## 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 automatized 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](#)

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[Rush University Medical Center, Chicago](#)

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