Talks

	TITLE	SPEAKER
14:30 - 14:50 Uhr	Welcome and introduction HybridEcho	Dr. med. Moritz Herzog (Hybrid Echo, EKFZ)
14:50 - 15:05 Uhr	Ultrasound tomography: Development and evaluation of a multiscan technology	Dr. med. Valentin Blank (Interdisziplinäre zentrale Ultraschallabteilung, Uniklinik Halle)
15:05 - 15:20 Uhr	AI for quantitative ultrasound	Prof. Dr. med. Carolin Schneider (Uniklinik Aachen)
15:20 - 15:35 Uhr	Multimodal ultrasound imaging: wavefront correction for new approaches to diagnostics	Dipl.-Ing. David Weik (Professur für Mess- und Sensortechnik, TU Dresden)
15:35 - 15:50 Uhr	Neuromodulation using ultrasound	Dr. med. Jonas Bendig (Columbia University New York)
15:50 - 16:20 Uhr	Coffee break + Demos	
16:20 - 16:30 Uhr	Control of microrobots with photoacoustics for reproductive medicine	Dr.-Ing. Richard Nauber (IFW Dresden)
16:30 - 16:45 Uhr	Real-time imaging in optoacoustics using AI	Christoph Dehner (iTHera Medical GmbH)
16:45 - 17:00 Uhr	Ultrasound innovations for the management of liver diseases - from screening to intervention	Heinrich Schulz (Philips GmbH Innovative Technologies)
17:00 - 17:15 Uhr	Application context: Importance of ultrasound in chronic liver diseases	Prof. Dr. med. Thomas Karlas (Interdisziplinäre zentrale Ultraschalleinheit, Uniklinik Leipzig)
17:15 - 17:30 Uhr	Relevant standards for sonography - ongoing standardisation projects	Prof. Dr. rer. nat. Klaus-Vitold Jenderka (Hochschule Merseburg)

Demos

- Sonovum - Ultrasound-based intracranial pressure measurement
- UltraIQ/CablonMedical - Phantoms for quality control in medical ultrasound
- Heteromerge - Acoustic metamaterials from 3D printing
- HybridEcho - Hybrid ultrasound systems for improved image quality
- Fraunhofer IPMS - CMUTs as scalable ultrasound transducers
- Fraunhofer IKTS - Modulare Ultraschallelektronik - die PCUS® pro-Gerätefamilie
- iTHera - Optoakustische Systeme für die Medizin
- Handson Ultraschall - Handhelds und Standgeräte zum Selbstversuch