

QIBA Ultrasound Shear Wave Speed (SWS):

System Dependencies Task Force

Friday, July 01, 2016; 11 AM CT

Notes provided by Dr. Palmeri

In attendance

Mark Palmeri, MD, PhD (Co-Chair)

Keith Wear, PhD (Co-Chair)

Paul Carson, PhD

Jun Chen, PhD

Mathieu Couade, PhD

Richard Ehman, MD

Steven Fick, PhD

Al Gee

Tim Hall, PhD

Kathy Nightingale, PhD

Stephen Rosenzweig, PhD

Marijean Trew

Theresa Tuthill, PhD

Matthew Urban, PhD

Michael Wang, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Palmeri

International Tissue Elasticity Conference ([ITEC](#)), Oct 16-19, 2016

- Dr. Dhyani will be presenting updates on the QIBA clinical work and the Profile.
- Dr. Hall will present some of the technical content (phantom analysis).
- There may be a presentation by industry representatives.

Simulation of Phase Aberration & Shear Wave Propagation in Viscoelastic Media

Presentation by Dr. Urban

- Dr. Urban presented on the impact of phase aberration on shear wave tracking.
 - *His slides are available [here](#)*
- The overall conclusions were:
 - Group velocity could still be reconstructed in the presence of "reasonable" aberration.
 - Bandwidth decreased as a function of phase aberration.

Latest MRE Measurements on Phantoms

Presentation by Dr. Jun Chen

- Dr. Chen presented on the latest MRE phantom measurements.
- Overall:
 - MRE and ultrasound agreed well, especially at high frequency.
 - Phase velocity comparisons at 160 Hz showed a slight positive bias in US systems compared to MRE
- Discussion about choosing 140 Hz as a good common comparison point b/w MRE and US, especially since 140 Hz could be used by MRE in vivo in the future

JULY US WebEx / Conference Schedule

July WebEx:

- **July 08:** Clinical Task Force
- **July 15:** US SWS BC
- ~~July 22:~~ **Date change to July 29:** CEUS BC

Conferences/ Meetings:

- **July 31 – Aug 4:** American Association of Physicists in Medicine (AAPM), (Washington, DC)