

QIBA Ultrasound Shear Wave Speed (SWS)

Phantom-System Measurement Testing

Monday, November 18, 2013; 1 PM CT

Call Summary

In attendance

Brian Garra, MD (Co-Chair)

Timothy J. Hall (Co-Chair)

Michael Andre, PhD

Jeremy Bercoff, PhD

Shigao Chen, PhD

David Cosgrove, MD

Steven Fick, PhD

Ernest Madsen, PhD

Andy Milkowski, MS

Kathy Nightingale, PhD

Mark Palmeri, MD, PhD

Nicolas Rognin, MSc, PhD

Cedric Schmitt, PhD

Keith Wear, PhD

Hua Xie, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Garra

Agenda, November 18, 2013, Monday, 1 pm CT

1. Review prior meeting notes
2. Comparison of Velocity vs. Frequency relationship for Duke University Measurements and Rheolution -- Cedric Schmitt, Kathy Nightingale
3. Phantom construction timetable revisited.
 - What stiffness values?
 - What Tan Delta Values?
 - Size and shapes?
 - Delivery Dates?
4. Other items including experimental design.

Summary/Action Items:

Phantom measurements are within 5% for both Duke and Rheolution; considered to be in good agreement

- Slight differences in the recipe for the phantom solutions due to separate pours
- Dispersion curve was deemed a better comparison than Tan Delta values

Phase II of the phantom study will focus on another set of measurements with lossier phantoms

- Duke, Rheolution, and the University of Wisconsin to make mechanical measurements
- Approximately half of the group's additional sites could be involved in processing of raw data
- It would be useful to see different groups' dispersion results
- Potential number of sites will be limited due to winter weather constraints, with only one phantom being used

Dr. Bercoff to provide one point-person for participating French sites

Mr. Milkowski to follow up with Dr. Andre regarding the status of the MRE phantom measurements

Dr. Hall to follow up with Dr. Madsen re specifications for the phantom to be fabricated

- Goal to mimic human-like measurements with SWS in phantoms

Volunteers welcome for the Meet-the-Expert poster session during the lunch-time hour, if attending RSNA 2013, by

responding to Doodle Poll: <http://www.doodle.com/zv8hksnc4wary9sx>

RSNA 2013 Annual Meeting - QIBA Technical Committees Working Meeting:

Wednesday, **December 4th** | 2:30pm – 5:00pm | Chicago, McCormick Place | Room: **N136**

Please RSVP by responding to the poll if you have not yet done so: <http://www.doodle.com/fwf76cegg78r75b>.

December Call Schedule:

Date	Time (CT)	Day	Committee/ Subcommittee	Moderator
12/09/2013	1:00 pm CT	Monday	US SWS Technical Committee	Mr. Milkowski – confirmed
12/16/2013	1:00 pm CT	Monday	COMBINED: System Dependencies / Phantom System Testing & Measurement Subcommittees Call	Dr. Wear - confirmed

It was proposed that there be a combination call for the System Dependencies/ Phantom subcommittees due to the number of people that overlap on both subcommittees. A first try for this will be this December call. If successful, a call schedule will be determined for the combined group.

A Clinical subcommittee call is being planned for January 2014.

RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible. Call participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries.