

QIBA Ultrasound Shear Wave Speed (SWS) Technical Committee

Friday, November 4, 2013; 11 AM CT

Call Summary

In attendance

Brian Garra, MD (Co-Chair)

Timothy J. Hall, PhD (Co-Chair)

Andy Milkowski, MS (Co-Chair)

Paul Carson, PhD

Shigao Chen, PhD

David Cosgrove, MD

Steven E. Fick, PhD

Christopher Hazard, PhD

Yuko Kanayama, MEng

Stephen McAleavey, PhD

Kathy Nightingale, PhD

Ryota Osumi, BEng

Mark Palmeri, MD, PhD

Nicolas Rognin, MSc, PhD

Cedric Schmitt, PhD

Daniel Sullivan, MD

Keith Wear, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Hall

Agenda

1. Approval of the 2013.Oct.11 call summary.
2. Doodle poll for volunteering at the RSNA for poster questions (Julie's e-mail 2013.Oct.29).
3. NIBIB-RSNA contract status.
4. Simulations studies on SWS estimates with curved array transducers (Duke; Mayo; others?)
5. Measurement agreement between DMA and ARFI methods – status update.
6. Peer reviewed manuscript plans
 - a. UCSD outliers
 - b. Further SWS analysis (other systems; full data set)
7. Phase II phantom study plans
 - a. Example/test phantom from UW shipped to Duke

General Discussion

Summary from October 4, 2013 Tech Cttee t-con was approved as written

Update on tech committee poster for RSNA 2013

The US TC poster has been submitted; Dr. Hall to follow up with RSNA staff regarding minor edits needed.

The QIBA US SWS Technical Committee is also giving a scientific presentation at RSNA 2013.

Request for volunteers for the Meet-the-Expert sessions at RSNA 2013; please respond to the Doodle Poll:

<http://www.doodle.com/zv8hksnc4wary9sx>

Update on QIBA projects

Subcontracts are currently with NIBIB contract officer for review

Once subcontracts are approved, they will be sent to individual institutions

Project PIs are reminded to work on timelines and keep momentum on project progress

Depth Dependencies

Duke is reviewing depth-dependency issues, with regard to curvilinear and linear arrays of ultrasonic transducers

Mr. Milkowski is following up with Dr. Andre at UCSD on the peer review manuscript to pinpoint the source of outlying variation

Drs. Nightingale and Schmitt are working together, looking at the Voight model, transformative approach, and dispersion curves

Dr. Madsen has created a sample phantom to be sent to Duke for testing

Dr. Lynch (CIRS) is sending sample phantoms to Duke for testing to evaluate lossiness

Action Items:

Next Phantom subcommittee call (Monday, November 18th): Dr. Schmitt to discuss results / relationships in data between Duke and Rheolution studies

Dr. Carson to draft a set of questions for Technical Committee co-chairs to review regarding SWS estimates

Proposed combination call for System Dependencies/ Phantom subcommittees to be scheduled for December

Subcommittee Updates: Detailed project updates may be found on each subcommittee's page: [QIBA wiki](#)

RSNA 2013 Annual Meeting - QIBA Technical Committees Working Meeting:

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

Please let us know whether you plan to attend by responding to the following poll:

<http://www.doodle.com/fwf76cegg78r75b>.

We appreciate your continued support and look forward to your participation - Thank You!

November Call Schedule:

| <i>Date</i> | <i>Time (CT)</i> | <i>Day</i> | <i>Committee/ Subcommittee</i> | <i>Moderator</i> |
|-------------|------------------|------------|---|------------------|
| 11/15/2013 | 11:00 am CT | Friday | System Dependencies Subcommittee | Dr. Palmeri |
| 11/18/2013 | 1:00 pm CT | Monday | Phantom System Testing & Measurement Subcommittee | Dr. Garra |

Proposed December Call Schedule:

| <i>Date</i> | <i>Time (CT)</i> | <i>Day</i> | <i>Committee/ Subcommittee</i> | <i>Moderator</i> |
|-------------|------------------|------------|---|------------------|
| 12/09/2013 | 1:00 pm CT | Monday | US SWS Technical Committee | Mr. Milkowski |
| 12/13/2013 | 11:00 am CT | Friday | Clinical Applications & Biological Targets Subcommittee | Dr. Cosgrove |
| 12/16/2013 | 1:00 pm CT | Monday | COMBINED: System Dependencies/Phantom System Testing & Measurement Subcommittees Call | Dr. Wear |