

QIBA Perfusion, Diffusion and Flow – MRI Technical Committee Update Call

Wednesday, 30-October-2013 at 12 PM CDT

Call Summary

Participants

Marko Ivancevic, PhD (Co-Chair)

Edward F. Jackson, PhD (Co-Chair)

Gudrun Zahlmann, PhD (Co-Chair)

Michael Boss, PhD

Orest B. Boyko, MD

Thomas L. Chenevert, PhD

Patricia E. Cole, PhD, MD

Greg O. Cron, PhD

Daniel Gembris, PhD

Martha Heckel

Daniel M. Krainak, PhD

Hendrik Laue, PhD

Ninad Mantri, MS

Thanh B. Nguyen, MD

Thorsten Persigehl, MD

Mark S. Shiroishi, MD

Daniel C. Sullivan, MD

Ying Tang, PhD

Brian A. Taylor, PhD

Onu Wu, PhD

Yuxiang Zhou, PhD

RSNA

Joe Koudelik

Madeleine McCoy

NIBIB Submission and Project Update (Dr. Zahlmann)

- Pls were congratulated on their projects:
 - DCE-MRI phantom study to evaluate the impact of parallel imaging and B1 inhomogeneities at different MR field strengths of 1.0T, 1.5T, and 3.0T—Dr. Persigehl
 - Development of a tool to evaluate software using artificial DCE-MRI data and statistical analysis—Dr. Laue
 - DW-MRI ADC Phantom—Dr. Boss
 - Software development for analysis of QIBA DW-MRI phantom data—Dr. Chenevert
- RSNA Staff has begun assembling subcontracts. Each subcontract must next be approved by the government Contract Officer

DWI Phantom Update (Dr. Boss)

- Dr Boss provided an update on the QIBA ADC phantom prototype fabricated at NIST which will be delivered to Dr. Morris in Manchester by 10/31/13 with complete instructions.
- Material choice modifications were made; a combination of ABS and polycarbonate now being used
- Inner support plate was redesigned for 20mL vials, creating more room for ice
- Specific details for filling and cooling the phantom overnight and during scanning were reviewed.
- The ISMRM publication deadline to submit the abstract is 11/13/13.
- The decision of scanning the phantom for repeatability (coffee break scan) or reproducibility (2-day scan) will be discussed with the European collaborators receiving the phantom.
- Dr. Boss will fabricate a second 3-D print phantom to help maintain the narrow image-acquisition timeframe by shipping in parallel to Dr. Chenevert at U Michigan.
- Dr. Alan Jackson will share data through MBox and measurements will be calculated by Dr. Chenevert.
- Dr. Boss will upload scans from the 3T Siemens platform to the QIDW DWI-Phantom Community.

QIBA PDF-MRI Tech Cttee Poster for the 2013 RSNA Annual Meeting (Dr. Jackson)

- The poster topic was confirmed: DWI Phantom Project and the status of the DWI Profile.
- Dr. Boss to compile the poster.
- Meet-the-Expert details were circulated by RSNA Staff and members are encouraged to participate.

Next t-con: Wednesday, November 13th at 11AM (CST)

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>

QIBA Poster Meet-the-Expert (MTE) Sessions at RSNA 2013

Location: McCormick Place, Chicago - Lakeside Learning Center (**Hall D**)

- Please provide your availability to participate in the QIBA Poster Meet-the-Expert (MTE) sessions.
- This is a chance to interact with meeting attendees to discuss current subcommittee projects.
- Sessions are 30 minutes over the noon-time hour, Sunday through Thursday.
- The Tech Ctte posters will be located at the **QIBA Kiosk**, which is within the **Lakeside Learning Center (Hall D)**.
- **Doodle Poll URL:** <http://www.doodle.com/x93wbnbsyspdzf77>