

Joint Biomedical Acoustics and Physical Acoustics Technical Committee Meeting Minutes
May 15, 2012 6-7 pm
Hong Kong
Total Attendance: approximately 35.

1. Message from PA and BA chairs

BA Chair Bob McGough regrets he could not attend. Former BATC chair Jeff Ketterling ran the joint meeting in his absence.

PA Chair Albert Migliori regrets he could not attend. Former PATC Chair Ron Roy stood in his stead.

2. Time constraint

One hour time limit so we must move quickly.

3. Welcome new attendees

A quick overview of purpose of TC meeting was given for new attendees.

New attendees introduce themselves. About 35 attendees were present.

4. Google email list:

Sign up for the BA mail list by sending an email to ASA_BATC-subscribe@googlegroups.com or mcgough@egr.msu.edu or visit http://groups.google.com/group/ASA_BATC.

Non-ASA members are welcome to join this list. Not possible to force new addresses onto the list so an invitation from Google groups will be sent out. You need to accept invitation to become part of list. (Note this list is separate from the "official" ASA BA mail list.

5. Education Coordinator:

Wendy Adams needs career profiles for people in BA and PA.

Education site is getting good traffic.

Educational site <http://www.exploresound.org/>

Education kits are available from <http://www.exploresound.org/Home/Teachers-Parents.aspx>

6. May 13-18, 2012 in Hong Kong

A. BA Activities

163rd meeting of the Acoustical Society of America (ASA), the 8th meeting of the Acoustical Society of China (ASC), the 11th Western Pacific Acoustics Conference (WESPAC) and the Hong Kong Institute of Acoustics (HKIOA) organized by the Hong Kong Institute of Acoustics.

At the Hong Kong Convention and Exhibition Centre

13-18 May, 2012 (Sunday to Friday).

- A. R. Bruce Lindsay Award: Constantin Coussios
- B. TPOM representative: Jonathan Mamou, Lei Sun, and Hairong Zheng
- C. Special session organizers:
 - I. "Acoustic Microscopy Imaging Methods for Biomedical Applications" (Joint with PA): Jonathan Mamou, Tadashi Yamaguchi
 - II. "Biomedical Ultrasound Instrumentation": Qifa Zhou, Lei Sun
 - III. "Bone Quantitative Ultrasound", organized by: Pascal Laugier, Dean Ta
 - IV. "Subharmonic Contrast Imaging" (Joint with PA): Michel Versluis, Jeffrey Ketterling
 - V. "Ultrasound Enhanced Drug Delivery": Constantin Coussios, Juan Tu
- D. Student Council Representative: Jason Raymond (Not present at meeting)
- E. Medals and Awards: Ron Roy (the M&A committees met via telephone conference)
- F. Membership Committee: Mike Bailey (Jeff Ketterling filled in)
- G. ASACOS: Peter Kaczowski and Vera Khokhlova (Not Present at meeting)
- H. BA Related JASA and JASA-EL Associate Editors (Based on PACS): Charles Church, Doug Miller, Doug Mast, Robin Cleveland, Mardi Hastings, Oleg Sapozhnikov, Paul Barbone, Joel Mobley, Steve Kargl, Mark Hamilton, Tom Matula, Joel Mobley, and Andrew Szeri
- I. BA POMA Associate Editor: Charles Church

B. PA Activities

- i. TPOM representative: Ron Roy
- ii. Special session organizers:
 - 1aPA: "Sonoluminescence"
Larry Crum, Juan Tu & W.Z. Chen

 - 2aPA: "Acoustic Micro- and Nanofluidics"
John Allen, Richard Manasseh & James Friend (joint with BA)

 - 3aPA: "Metrics and Objectivity in Cavitation Research"
Charles Church, Suk Wang Yoon and Gail ter Haar (joint with BA)

 - 4aPA: "Emerging Technologies and Concepts in Ultrasonics"
Won Suk Ohm and Preston Wilson (joint with EA)

 - 5pPA: "Negative radiation forces exerted by acoustical and optical beams"
Phil Marston and Jack Ng.
- iii. Student Council Rep.: Not present at meeting.
- iv. Medals and Awards: Carr Everbach (M&A met via phone conference)

- v. Membership Committee: Charlie Church
- vi. Books Committee: Phil Marston
- vii. ASACOS: Joel Mobley (Not Present at Meeting)

7. Student Poster competition

There will be a student poster competition in Kansas City and in Montreal. Unfortunately, the KC call does not currently announce the competition so it is very important to get the word out. Normally the student poster comp would be the Spring meeting but Honk Kong presented some potential problems with student attendance. Please make your students aware of the KC poster competition. We will try to get this placed in the call.

Judges are essential for making this competition work. If you want to volunteer contact Bob McGough or Kevin Haworth.

It will also be important for the student council rep to get the word out to the BA students.

8. Report from Student Council

Jason Raymond unable to attend and sends his regrets. No updates from Student Council

9. ASA Standards committee (ASACOS)

5 free standards per year for ASA members

No updates were provided on ASACOS activities.

10. October 22-26, 2012 in Kansas City, MO

A. BA Special sessions:

- a) "Biomedical applications of acoustic standing waves" organized by Martin Wiklund, jointly with Signal processing
- b) "Measurement of Material Properties using Wave Propagation Methods" organized by Matt Urban jointly with Signal Processing
- c) Wes Nyborg memorial session? Jointly with PA
- d) "Nonlinear simulations of medical ultrasound" Martin Verweij jointly with PA
- e) "Biomedical applications of Radiation Force" by Mostafa Fatemi jointly with PA
- f) "Student Poster Competition" Kevin Haworth

TPOM rep for Kansas City (June– Bob McGough and Xinmai Yang

Hot Topics – BA will be asked to provide a 'hot topics' speaker for KC. Suggestions can be made to Bob McGough. Last BA hot topic was photoacoustics (San Antonio).

B. PA Special sessions:

Sessions for Kansas City were finalized off line by Albert Migliori. No list provided.

ASA SCHOOL 2012 (OCT 20-21)

Two days of presentations and discussions held prior to the ASA meeting. Theme: Living in the acoustic environment. Presentations will be given by 6 ASA TCs (AA, EA, MA, N, PP, SC). Each TC will give 2x 1-hour long survey presentations to generate interest.. Limited to 40-50 students and there is a \$50 fee.

11. June 2-7, 2013 in Montreal, Quebec (tentative) Abstracts due Nov 15

Joint with ICA/Canadian Acoustical Association

A proceedings submission will be a requirement. Minimum of 1 or 2 pages.

A. BA Special sessions:

- a) "High-frequency ultrasound (20-80 MHz)" organized by Michael Oelze
- b) "Delivery of nucleic acids (DNA, siRNA, antisense oligos)" organized by Tyrone Porter
- c) "100+ MHz Ultrasound" organized by John Allen
- d) "Ultrasound tomography" organized by Yun Jing
- e) "Biophysical mechanisms of sonoporation" organized by Richard Mannaseh
- f) "Student Poster Competition" Kevin Haworth

TPOM rep (Feb 15-16)– Ron Roy and Tyrone Porter

B. PA Special sessions:

"Acoustics in microfluidics and for particle separation" Organizers: Larry Crum and Michel Versluis

TPOM rep – Need volunteer.

12. Dec 2-6 2013 in San Francisco (in Union Square)

A. BA Tentative Special Sessions:

Tentative sessions are welcome. They will be finalized in KC.

A. PA Tentative Special sessions:

Tentative sessions are welcome. They will be finalized in KC.

13. Future meetings (tentative sessions are welcome)

- a) May 5-9, 2014 in Providence, RI
- b) Oct 27-31, 2014 in Indianapolis, IN
- c) May 18-22, 2015 Pittsburgh, PA
- d) Nov 2-6, 2015 Jacksonville, FL

- e) Fall 2016 – Possibly Hawaii meeting with Japanese Acoustical Society
- f) 2017 potentially in Boston Proposed ASA/EAA.

14. Review papers for JASA

Review papers are requested from eminent people in BA and PA.

If interested, contact Charlie Church and/or the Editor in Chief (Allan Pierce).

The Special Issue on The Acoustics of Bubbles and Cavitation appeared November 2011. The Issue had 36 papers and was organized by Ron Roy.

Upcoming special issues on Therapeutic Applications of Ultrasound (Guest Eds., Larry Crum and Vera Khokhlova), Acoustics of Porous Media, Deep Water Ocean Acoustics, Methods for Marine Mammals Passive Acoustics, Sediment Acoustics, Soundscapes and Their Applications. These contain 30 papers on average.

15. AIP citation platform

AIP is moving to a merged platform for citations across all journals. Will provide more powerful search tools and common portal for reviewers and authors. Will go online in Nov 2012.

16. Plans to replace PACS are being discussed

The proposed classifications for Biomedical Acoustics are in draft status:

Doug Mast is the BA liaison to the Editor in Chief for classification system reorganization. New version will be added as index to minutes.

Contact Doug if you have any comments.

17. Discussion topics for BATC:

- a) Starting with the Kansas City meeting, electronic copies of Call for Papers are only available online. Post cards are sent out about two months before abstracts are due.
- b) Should accepted papers be put online as pre-prints on JASA? This issue was discussed in the abstract and it was unanimous that this idea should be adopted, but using the final copy-edited version of the manuscript.
- c) Guidelines for providing travel support for ASA members to attend non-ASA meetings can now be found at ASA web site.
- d) A suggestion was made that the ASA create “apps” with the meeting program for all future meetings. A general consensus emerged that some form of paper program should be made available. A condensed program of title talks perhaps would be useful at the conference to make it easy to carry around. Several international members also expressed frustration that the abstract publication arrives in their country after the conference has taken place.

- e) A question was asked regarding JASA and the NIH mandated submission of journal articles to the NIHMS site. AIP does in fact submit on the author's behalf but there appears to be a 12 month embargo. An attempt to submit your own paper would block you from actually uploading an article.

18. Discussion topics for PATC:

No other business was raised.

21. Meeting Adjourned at 6:50

Jeffrey Ketterling (BA) and Ron Roy (PA)

Ex chairs and acting chairs in Hong Kong