

Fall 2012 Biomedical Acoustics Technical Committee (BATC) meeting minutes
October 24, 2012
Kansas City, MO
7:30pm

Oct 22-26, 2012 Kansas City ASA meeting

- Welcome new attendees
- 41 people signed the 'sign-in' sheet
- Google email list:
Sign up for the BA mail list by sending an email to mcgough@egr.msu.edu. Non-ASA members are welcome to join this list.
- ASA membership:
Associate members have been asked to upgrade to full member. This only requires 2 full member signatures with no additional cost for yearly dues. Desks with members ready to sign can be found at the social events at this meeting.
- Thanks to:
 - TPOM representatives: Xinmai Yang and Bob McGough
 - 'Take-a-Student-to-the-Fellows-Luncheon': Christy Holland hosted Amit Katiyar - the winner of a raffle at the Student Reception
 - Special session organizers:
 - "Biomedical applications of acoustic standing waves" organized by Martin Wiklund
 - "Measurement of Material Properties using Wave Propagation Methods" organized by Matt Urban
 - "Nonlinear simulations of medical ultrasound" organized by Martin Verweij and Koen van Dongen
 - Wes Nyborg memorial session (Jointly with PA) organized by Larry Crum and Junru Wu
 - Hot topics speaker: Lihong Wang (Wash U. St.Louis)
 - Medals and Awards: Ron Roy
 - Membership Committee: Mike Bailey (Bob McGough filled in)
 - ASACOS: Peter Kaczkowski and Vera Khokhlova
 - Student Council Representative: Jason Raymond
 - 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
 - POMA Associate Editor for BA: Charles Church
- comments on the KC meeting
 - regarding the frequency and duration of the ASA meeting: having ASA meetings twice each year is excessive, and each 5 day meeting drags on too long
 - JASA needs to decouple Biomedical Acoustics from Animal Bioacoustics in the table of contents and in the list of associate editors. The present format, which is confusing to both authors and readers, encourages authors from BA to submit their

- papers to other journals instead of JASA.
 - the iPhone app was well-received, but the android app was useless because it required an internet connection
 - iPhone/android app – need to scroll through everything to find the technical sessions. Should be able to go straight to the technical sessions. These apps include a considerable amount of extraneous material.
 - not enough internet connections were available in the meeting rooms and common areas
- Medals and Awards:
 - Ron Roy, with the support of the BA awards committee, has formalized the procedure for soliciting and vetting candidates for medals and awards. This information has been emailed to Google BATC list members. This material is also posted on the BATC web site.
 - Silver Medal in Biomedical Acoustics
 - BA is eligible for a silver medal in this spring. Past silver award winners (from BV, BU/BV, and physical acoustics) were listed, and the past Helmholtz-Rayleigh Interdisciplinary Silver Medal award winners were also given. After the meeting, a list of about 15 potential candidates was collected. CVs for the candidates are still being solicited. The internal BA deadline for collecting names and CVs of potential candidates is November 30.
 - For the Helmholtz-Rayleigh and Lindsay Awards, nominations are being sought for consideration in Fall 2013 (with an internal BA deadline of April 2).
 - Medals and Awards to be granted at the Montreal meeting (June 2-6, 2013).
Congratulations to all of you!
 - Gold Medal: Larry Crum
 - Helmholtz-Rayleigh: Tim Leighton
 - Lindsay Award: Eleanor Stride
 - Finally, a hearty ‘thank you’ to Ron Roy for his efforts on the M&A committee.
- Fall school
 - We were told that the fall school was a big success.
 - The theme of the fall school is 'Living in the Acoustic Environment'.
 - 6 areas represented - Architectural Acoustics, Engineering Acoustics, Musical Acoustics, Noise, Psychological and Physiological Acoustics, Speech Communication
 - More information was requested on future fall schools (when, where, what, and who?)
 - \$50 registration fee for each undergraduate/graduate student who participates
 - No additional support is offered to presenters.
 - BA is interested in participating in a future fall school.
- The end of PACS
 - PACS is being replaced with AIP Thesaurus
 - These are the entries at the top level of the Thesaurus

- Acoustical measurements
- Acoustical properties
- Acoustic instrumentation
- Acoustic modeling
- Acoustic noise
- Acoustic signal processing
- Aeroacoustics
- Architectural acoustics
- Bioacoustics
- Linear acoustics
- Musical acoustics
- Nonlinear acoustics
- Physiological acoustics
- Psychological acoustics
- Speech
- Structural acoustics
- Ultrasonics
- Underwater sound
- To see the categories and subcategories, go to <http://webtaxo.accessinn.com/thesview>
 - Thesaurus: scitationthes
 - Username: thesview
 - Password: aip4view
- BA falls under the heading of Bioacoustics (perhaps also ultrasound)
- There is no Animal Bioacoustics entry (not sure where they are included)
- AIP decided to ignore the work performed by the Subject Classification Committee
- ASA Standards committee (ASACOS)
 - Topics discussed included: whether or not representation from BA on this committee is needed, whether 2 representatives are needed, and whether any standards are being or will be written for BA topics of interest.
- Technical Initiatives for 2013
 - Request from Vera Khokhlova for \$1000 to fund 1 or 2 students in support of travel to the Winter School on Therapeutic Ultrasound in Les Houches, France. This motion was approved during the technical council meeting on Friday.
 - Request from Larry Crum for an honorarium (\$1000) and travel support (\$1250) for Jeff Elias, who is affiliated with the Focused Ultrasound Surgery Foundation, to give a distinguished lecture at the San Francisco meeting. This motion was approved during the technical council meeting on Friday.
- Special issue in JASA
 - 41 papers were collected for the upcoming special issue on Therapeutic Ultrasound in JASA. This special issue will appear in JASA in 2013.
- Student Council – report from Jason Raymond (U. of Cincinnati)
 - Looking for volunteers: we need someone to give a 12 minute talk 'Introduction to BA' at each meeting (not necessarily the same person each time). This is an introduction primarily intended for graduate and undergraduate students that highlights some of the

- interesting research in BA. Recent presenters from BA include Tyrone Porter (San Diego) and Bob McGough (Kansas City). This session is on Monday, and in the recent past, it has overlapped with the Technical Council meeting. Anyone attending an upcoming ASA meeting on Monday is encouraged to volunteer to give one of these presentations. Copies of past slides will be provided upon request.
- More volunteers: Jason is also looking for fellows in BATC to host students at the "take a student to the fellows luncheon". Anyone interested can contact Jason Raymond (raymonjl@mail.uc.edu) to be placed on a list of potential hosts. Student Mentor Award
 - Nominations for the Student Council Mentoring Award award are due *before* the Montreal meeting. Information is on the Student Council website. The recipient will be chosen by vote of the Student Council, and the award will be presented at the Fall 2013 ASA Meeting in San Francisco.
 - We would also like to thank Jason for arranging the best part of the meeting...
- Poster competition
 - Organizer/Coordinator in Kansas City: Kevin Haworth
 - Poster Judges: Koen van Dongen, Matt Urban, Martin Verweij, Larry Crum, Vera Khokhlova, Goutam Ghoshal, Ken Bader, Guillaume Bouchoux, Kevin Haworth, Joel Mobley, Christy Holland, Doug Mast, Kausik Sarkar, Bob McGough, and Tim Stiles
 - Next poster session will take place at the Montreal meeting
 - We will continue to hold the poster session, which is the 'best paper competition for BA,' every spring
 - This year's winners are...
 - first place: Kirthi Radhakrishnan - University of Cincinnati (\$500)
 - second place: Kun Jia - Zhejiang University (\$300)
 - third place: Karla P. Mercado - University of Rochester (\$200)
 - Checks for the amounts indicated above have been sent to the winners. Congratulations!
 - Spring 2013 ASA meeting: June 2-7, 2013 in Montreal, Quebec
 - Joint with the Canadian Acoustical Association and ICA
 - Special sessions:
 - "High-frequency ultrasound (20-80 MHz)" organized by Michael Oelze and Michael Kolios
 - "Delivery of nucleic acids (DNA, siRNA, antisense oligos)" organized by Tyrone Porter and Raffi Karshafian
 - "Acoustic Microscopy: Biomedical Applications" organized by John Allen
 - "Ultrasound tomography" organized by Yun Jing
 - "Biophysical mechanisms of sonoporation" organized by Richard Mannaseh
 - "Student Poster Competition" organized by Kevin Haworth and Tyrone Porter
 - TPOM reps – Ron Roy and Tyrone Porter/Jeff Ketterling
 - Things you need to know:
 - The abstract deadline is **Nov. 15**
 - There will be a proceedings, and POMA will be the host
 - A 2-8 page conference paper is required for this meeting. The conference paper is due **Jan 22nd**, which is also the registration deadline (i.e., register,

- submit paper, and pay at the same time).
 - Papers will be checked for blatant commercialism by graduate students.
 - Full peer review will be provided upon request (the conference organizers are thinking about going to POMA for this), but the deadline for peer reviewed paper will be earlier than the Jan 22nd deadline. About 10 peer-reviewed papers per technical committee are expected.
 - There will be an AIP template provided for papers (a LaTeX template will also be provided)
 - This conference will have opening ceremonies - drinks and entertainment provided (local circus)
 - There will also be a closing ceremony
 - The Grand Prix is in Montreal the next week, so expect to pay a premium for the hotel if you stay past June 7.
- Fall 2013 ASA meeting in San Francisco meeting December 2-6, 2013
 - special sessions:
 - "Bubble detection in diagnostic and therapeutic applications" organized by Eleanor Stride
 - "Nanobubbles, nanoparticles, and nanodroplets for biomedical acoustic applications" organized by Jonathan Mamou and Jeff Ketterling
 - "Application of acoustic radiation force in medical imaging" organized by Mostafa Fatemi (joint with Signal Processing)
 - "Field characterization and dosimetry for therapeutic ultrasound applications" organized by Vera Khokhlova and Gail ter Haar (joint with PA)
 - "Recent advances in Therapeutic Ultrasound" organized by Larry Crum, which will start off with a 50 minute presentation by Dr. Jeff Elias
 - Wine tour planned Sat after conference
 - TPOM in July or Aug: Tom Matula volunteered to be the TPOM rep
- Future meetings
 - May 5-9 2014 in Providence, RI (need to start planning special topics now)
 - Oct 27-31 2014 in Indianapolis, IN
 - May 18-22 2015 in Pittsburgh, PA
 - Oct 18-22 2015 in Jacksonville, FL
 - Spring 2016 in Salt Lake City
 - Fall 2016 in Honolulu (joint with ASJ)
 - Spring 2017 in Boston (joint with European Acoustical Society)
 - Fall 2018 in Cabo San Lucas, Mexico
- Career profiles/graduate programs
 - Wendy Adams needs career profiles for people in BA. She has profiled people from other areas, but none from BA. This involves a 30 minute interview with Wendy. An interesting picture of your job/research is needed for this. Christy Holland volunteered for this, and we need more volunteers.
 - Wendy is also collecting information on graduate programs in acoustics. A form was circulated at the meeting, and it was also sent to everyone on the BATC list.
- Survey questions from Technical Council
 - Acoustics Today/Echoes

- like these publications/don't like them/don't care? In BA, the survey said: about 50% like them, and 50% don't care. (same results for both Acoustics Today and Echoes)
 - paper copies or online? In BA, the survey said: about 50% prefer paper copies, and about 50% prefer online copies.
 - All of JASA until 2009 on a USB for \$150 - would you want it? In BA, 3 people said 'yes,' and the rest said 'no.'
- BATC web site
 - <http://acosoc.org/TechComm/BATC/>
 - suggestions for improvements were solicited.
 - After the meeting, several things were added to the BATC website:
 - Pictures of the poster competition
 - Names of medal and award winners from BA
 - Recent and upcoming special sessions (and their organizers)
- Other business
 - Larry showed us a video from the Focused Ultrasound Surgery Foundation website. The video demonstrated how Dr. Jeff Elias applied HIFU for treatment of essential tremor. Dr. Elias will give a distinguished lecture at the ASA meeting in San Francisco.
- The meeting adjourned after about 2 hours.