

Spring 2013 Biomedical Acoustics Technical Committee (BATC) meeting minutes
June 5, 2013
Montreal, Quebec, Canada
7:30pm

June 3-7, 2013 Montreal ASA meeting

- Meeting called to order by Bob McGough, BATC Chair
- Welcome new attendees
- 59 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.
- Thanks to:
 - TPOM representatives: Ron Roy and Jeff Ketterling
 - 'Take-a-Student-to-the-Fellows-Luncheon': not scheduled for Montreal (scheduled for San Francisco)
 - Special session organizers:
 - "Acoustic Microscopy: Biomedical Applications" organized by John Allen
 - "Ultrasound tomography" organized by Yun Jing
 - "Biophysical mechanisms of sonoporation" organized by Richard Manasseh and John Allen
 - "High-frequency ultrasound (20-80 MHz)" organized by Michael Oelze
 - "Delivery of nucleic acids (DNA, siRNA, antisense oligos)" organized by Tyrone Porter and Raffi Karshafian
 - Hot topics speaker: N/A
 - Medals and Awards: Ron Roy
 - Membership Committee: Mike Bailey
 - ASACOS: Peter Kaczkowski and Vera Khokhlova
 - Student Council Representative: Jason Raymond
 - BA-Related JASA and JASA-EL Associate Editors: Charles Church, Doug Miller, Robin Cleveland, Guillaume Haïat, Mardi Hastings, Oleg Sapozhnikov, Paul Barbone, Tim Leighton, Keith Wear, Suk Wang Yoon, and Martin Verweij
 - POMA Associate Editor for BA: Charles Church
- Notes from Technical Council:
 - Joint meeting with ICA and CAA
 - ASA and CAA had to compete to get ICA
 - Proceedings (i.e., POMA papers) were required by ICA
 - 1600 manuscripts were submitted
- Comments on the Montreal meeting:
 - Good venue, good internet access.
 - The computer systems worked well. Advance loading of slides worked well. Advance loading of slides was recommended for future meetings.
 - The security at the entrance seemed excessive.

- The audio was poor in the plenary session.
- Coffee and snacks were requested for the poster session.
- The 20 minute talks were well-received.
- A vote was held on the proposed registration fee increase (from \$0 to \$50 for graduate student ASA members starting with the Providence meeting). Approximately 40 attendees voted against the fee increase, and 1 attendee voted for the increase. The remaining attendees abstained.
- The departure of Wendy Adams as the education coordinator for the ASA was discussed. BATC members expressed disappointment at her departure. It was widely felt that she did an excellent job. Concerns were raised regarding the plans to fill this position.
- Additional funds to support travel, etc. for invited speakers were requested during the BATC meeting. It was noted that we have possibly missed out on the opportunity to bring in highly-regarded speakers due to limited funds. To address this, speakers requiring travel support should be identified when the special session forms are submitted (i.e., approximately one year in advance). With sufficient advance notice, funds to support additional speakers can then be requested at the Technical Council meeting.
- Medals and Awards:
 - The following Medals and Awards were granted at the Montreal meeting. Congratulations Larry, Tim, and Eleanor!
 - Gold Medal: Lawrence A. Crum - For discovery and invention in physical and biomedical acoustics, and for leadership in acoustics worldwide.
 - Helmholtz-Rayleigh Interdisciplinary (HRI) Silver Medal in Biomedical Acoustics, Physical Acoustics, and Acoustical Oceanography: Timothy J. Leighton – For contributions to physical acoustics, biomedical ultrasound, sonochemistry, and acoustical oceanography.
 - R. Bruce Lindsay Award: Eleanor P. J. Stride - For contributions to biomedical application of bubbles.
 - It was noted that all 3 award winners gave presentations during one of the Tuesday morning sessions in Montreal.
 - Kudos to Ron Roy and Carr Everbach for their efforts on the Gold, HRI Silver, and Lindsay awards.
 - The BATC website was recently updated to reflect the Montreal award winners (<http://acosoc.org/TechComm/BATC/awards.html>)
 - Silver Medal in Biomedical Acoustics
 - Kullervo Hynynen will be awarded the Silver Medal in Biomedical Acoustics at the upcoming meeting in San Francisco. Congratulations Kullervo!
 - Kudos to Larry Crum for engineering the winning dossier for the Silver Medal and to Ron Roy for his contributions to this effort.
 - This has been an excellent year for Medals and Awards in BA!
 - For the Helmholtz-Rayleigh and Lindsay Awards, nominations are being sought for consideration in Fall 2014 (with an internal BA deadline of April 2).
- Fall school:
 - The next fall school will be held immediately before the Providence meeting.

- It is likely that BA will be asked to participate. Ideally, the presenter(s) from BA will be from nearby.
- Presentations are on the order of 2 hours for each area, with additional time for interaction and discussion.
- \$50 registration fee for each undergraduate/graduate student who participates
- No additional support is offered to presenters.
- More details will be given in an upcoming article in Acoustics Today.
- Transition from PACS to Thesaurus:
 - PACS is being replaced with AIP Thesaurus
 - Converting POMA papers into JASA papers was discussed
 - A vote was held regarding the decoupling of BA and AB in JASA. More than 2/3 of those present voted in favor of decoupling of BA and AB in JASA with no votes against. The remaining attendees abstained.
- ASA Standards committee (ASACOS):
 - Not discussed
- Technical Initiatives for 2013:
 - Vera Khokhlova reported on the recent Winter School on Therapeutic Ultrasound in Les Houches, France. This meeting was a big success.
 - Dr. Jeff Elias, who is affiliated with the Focused Ultrasound Surgery Foundation, will give a distinguished lecture at the San Francisco meeting.
- Special issues (Acoustics Today and JASA):
 - Vera Khokhlova summarized a recent special issue of Acoustics today. Many thanks to everyone who helped out with this.
 - Contributed Articles:
 - Photoacoustic imaging for medical diagnostics, Carolyn L. Bayer, Geoffrey P. Luke, Stanislav Y. Emelianov
 - Applications of Transcranial Focused Ultrasound Surgery, Daniel Pajek & Kullervo Hynynen
 - Ultrasonic bioeffects on peripheral nerves, Robert Muratore, Jeffrey J. Vaitekunas
 - Disintegration of tissue using High Intensity Focused Ultrasound: two approaches that utilize shock waves, Adam Maxwell, Oleg Sapozhnikov, Michael Bailey, Lawrence Crum, Zhen Xu, Brian Fowlkes, Charles Cain, Vera Khokhlova
 - The special issue of JASA on Therapeutic Ultrasound was also excellent. Many thanks to everyone who contributed.
- Student Council – report from Jason Raymond (U. of Cincinnati):
 - 600 students preregistered for the Montreal meeting. More than 700 students attended.
 - Looking for a volunteer: we need someone to give an 8 minute talk 'Introduction to BA' at the Providence meeting. 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.
- The recipient of the Student Mentor Award 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 doing a great job as student council representative, for his role in making this meeting a success, and for the 'souvenirs' at the Montreal meeting.
 - Poster competition:
 - Organizer/Coordinator in Montreal: Kevin Haworth
 - Poster Judges: Jamie Collins, Constantin Coussios, Eleanor Stride, Glynn Holt, Kavitha Chandra, Koen W.A. van Dongen, Tim Leighton, Tanya Khokhlova, Tyrone Porter, Vera Khokhlova, Wagner Coelho de Albuquerque Pereira, Wayne Kreider, Yun Jing, Charles Thompson, Jeremy Brown, Christy Holland, Likun Zhang
 - We will continue to hold the poster session, which is the 'best paper competition for BA,' every spring. The next poster session will take place at the Providence meeting.
 - This year's winners are...
 - first place: Amin Jafari Sojahrood - Ryerson University (\$500)
 - second place: Pol Grasland-Mongrain - Université de Lyon (\$300)
 - third place: Matthew Adams - Boston University (\$200)
 - Congratulations to this year's winners!
 - Fall 2013 ASA meeting December 2-6, 2013 in San Francisco:
 - 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
 - Hot topics speaker: Kirk Shung (USC) on acoustical tweezers and ultrahigh frequency ultrasound
 - 'Take-a-Student-to-the-Fellows-Luncheon': Christy Holland has volunteered to host a student at the next meeting (in San Francisco).
 - Wine tour planned Sat after conference
 - TPOM July 26-27: Tom Matula will be the TPOM rep
 - The abstract deadline is July 8
 - Special session organizers need to get in touch with invited speakers well in advance
 - Spring 2014 ASA meeting May 5-9 in Providence, RI:
 - Special sessions:

- "Brain therapy and surgery with ultrasound" organized by Yun Jing
- "Breast ultrasound" organized by Koen van Dongen.
- Fall 2014 ASA meeting Oct 27-31 in Indianapolis, IN:
 - Need to start collecting special sessions
- Future meetings
 - 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
- 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)
- The meeting adjourned after about 2 hours.

Minutes compiled and submitted by Bob McGough. Koen van Dongen's contributions to these minutes are gratefully acknowledged.