

Fall 2013 Biomedical Acoustics Technical Committee (BATC) meeting minutes  
December 4, 2013  
San Francisco, California, USA  
7:30pm

December 2-6, 2013 San Francisco ASA meeting:

- Meeting called to order by Bob McGough, BATC Chair
- Welcome new attendees
- 28 people signed the 'sign-in' sheet (more than 30 people were in attendance)
- Google email list:  
Sign up for the BA mail list by sending an email to [mcgough@egr.msu.edu](mailto:mcgough@egr.msu.edu). Non-ASA members are welcome to join this list.
- Thanks to:
  - TPOM representative(s): Tom Matula
  - 'Students Meet Members for Lunch': Bob McGough took Pegah Aslani (BYU) to lunch on Thursday
  - 'Take-a-Student-to-the-Fellows-Luncheon': Vera Khokhlova took Tao Sun (Columbia) to the Fellows luncheon
  - Special session organizers:
    - "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
  - Hot topics speaker: Kirk Shung (USC) on acoustical tweezers and ultrahigh frequency ultrasound
  - Distinguished Lecture by Dr. Jeff Elias (UVa)
  - Student Council Representative Jason Raymond (Jonathan Sutton filled in for Jason at this meeting)
  - Outgoing BATC representatives:
    - Medals and Awards: Ron Roy
    - Membership Committee: Mike Bailey
    - ASACOS: Vera Khokhlova
  - Incoming and continuing representatives:
    - Medals and Awards: Mike Bailey
    - Membership Committee: Tom Matula
    - ASACOS: Peter Kaczkowski and Wayne Kreider
  - BA-Related JASA and JASA-EL Associate Editors: Paul Barbone, Charles Church, Robin Cleveland, Guillaume Haiat, Mark Hamilton, Mardi Hastings, Tim Leighton, Doug Miller, Oleg Sapozhnikov, Martin Verweij, Keith Wear, and Suk Wang Yoon.
  - POMA Associate Editor for BA: Charles Church

- Medals and Awards at the San Francisco meeting:
  - Silver Medal in Biomedical Acoustics: Kullervo Hynynen - For contributions to the science and the clinical applications of therapeutic ultrasound. Congratulations Kullervo!
- New Fellows:
  - Kausik Sarkar - For contributions to the modeling of ultrasound microbubbles. Congratulations Kausik!
- For the Helmholtz-Rayleigh and Lindsay Awards, nominations are sought for consideration in Fall 2015 (with an internal BA deadline of April 2).
- There will be a BATC Chair election via email before the Providence meeting. Prospective candidates are being recruited for this 3 year (6 ASA meeting) commitment. This is an excellent opportunity to contribute and also to interact with the leaders of the Acoustical Society.
- Comments on the San Francisco meeting:
  - The dining options nearby were excellent.
  - The post in the middle of the room was discussed at length.
  - The possibility of parallel BA sessions for BA was discussed.
  - BA supported the Technical Initiative for the Physical Acoustics Summer school.
  - The travel budget for invited speakers is limited. Special session organizers are encouraged to submit travel support requests for invited speakers to the BATC Chair one year in advance (i.e., when the special session forms are submitted), which will be very helpful if we need to request additional funds for this purpose.
- Transition from PACS to Thesaurus:
  - The uncoupling of BA and AB in JASA is planned, which will coincide with the transition from PXP to Editorial Manager. Top levels will be the names of the individual TC's. This should take place sometime in 2014.
- Acoustics Today
  - Suggestions for articles are requested.
  - Articles in Acoustics Today are by invitation only.
  - A copy of the form for suggesting an article will be sent to the BATC email server.
- News from Technical Council
  - "Early Career" Registration Rates: Relaxing the requirement for post-docs to have previous student membership to obtain reduced rate registration is being discussed.
- Programs:
  - 7000 program books are presently mailed out prior to each conference
  - programs will no longer be mailed out in advance, starting with the Providence meeting
  - there is a plan to offer an option to 'opt in' to obtain a copy of the program via mail after the meeting
  - printed programs will still be available at the meeting
  - advantages:
    - abstract deadlines can be pushed back by 2 weeks and
    - less waste

- Technical Initiative for 2014
  - The 14th International Symposium of Therapeutic Ultrasound (ISTU) will take place April 2-5, 2014, at Caesars Palace in Las Vegas, Nevada. This ISTU meeting is cosponsored by the ASA through a BATC technical initiative submitted by Vera Khokhlova.
- Student Council – report from Jonathan Sutton (U. of Cincinnati):
  - The BATC needs a volunteer to give a 12 minute talk 'Introduction to the Biomedical Acoustics Technical Committee' 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 Larry Crum, 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. Tyrone Porter volunteered to give this presentation in Providence.
  - The recipient of the 2013 Student Mentor Award was Barbara Shinn-Cunningham. Nominations for the next Student Mentor Award are due before the Indianapolis ASA meeting, and the award will be presented at the ASA Meeting in Pittsburgh.
  - The Providence meeting will be Jason's last meeting as BATC student representative. Details on the election process are forthcoming.
  - We would also like to thank Jonathan for doing a great job filling in for Jason Raymond as the student council representative at this meeting.

Spring 2014 ASA meeting May 5-9, 2014 in Providence:

- TPOM on January 17-18: Tyrone Porter and Carr Everbach will be the BATC reps.
- Special sessions:
  - "Breast Ultrasound" organized by Koen W.A. van Dongen
  - "Brain therapy and imaging" organized by Yun Jing
  - "Biomedical applications of low intensity ultrasound" organized by Tom Szabo
- Poster competition:
  - Organizer/Coordinator: Kevin Haworth
  - Poster Judges: We would appreciate it if you would volunteer to judge posters if you will be attending the Providence meeting.
- ASA Summer School 2014: Living in the Acoustic Environment
  - 3-4 May 2014, right before the Providence meeting
  - Previous 'Fall School' described in a recent article in Acoustics Today.
  - Eligibility: Graduate Student & Early Career Acoustician Abstract Authors
  - Cost: \$50 includes lodging, food, and course materials
  - Deadlines: *Abstract* – 16 December 2013, *Summer School* – 03 February 2014
  - Only 60 participants will be selected from the pool of applicants
  - Students must submit an abstract to the ASA conference 5-9 May to have a chance of being selected
  - Presenters and Topics

- Michael J. Buckingham (Univ. of California San Diego) - *Ambient Noise in the Ocean*
  - Grace A. Clark (Lawrence Livermore National Laboratory) – *Signal Processing in Acoustics*
  - Lawrence A. Crum (Univ. of Washington) - *Recent Advances in Therapeutic Ultrasound*
  - Stan E. Dosso (Univ. of Victoria, Canada) - *Studying the Sea with Sound: Ocean Acoustic Inverse Theory*
  - Mark F. Hamilton (Univ. of Texas at Austin) – *Physical Acoustics: Nonlinear Acoustics*
  - Christy K. Holland (Univ. of Cincinnati) – *Diagnostic and Therapeutic Ultrasound: Better with Bubbles*
  - Marcia J. Isakson (Univ. of Texas at Austin) – *A Short History of Ocean Acoustic Propagation Modeling: Elemental Ray Theory to Finite Elements*
  - Peter M. Narins (University of California Los Angeles) - *Adventures of an Expeditionary Biologist: Exploring Sensory Adaptations*
  - Daniel A. Russell (The Pennsylvania State Univ.) - *Acoustics and Vibration of Sports Equipment*
  - Aaron M. Thode (Univ. of California San Diego) - *Underwater Soundscape Analysis and Marine Mammal Bioacoustics*
- Other:
    - A session on Organ Music is scheduled for Wednesday morning
    - An organ recital is also planned.

Fall 2014 ASA meeting Oct 27-31 in Indianapolis, IN:

- Special sessions:
  - "Quantitative Ultrasound Techniques" organized by Michael Oelze
  - "Cavitation Induction and Detection Techniques" organized by Kevin Haworth and Oliver Kripfens
  - "History of HIFU" organized by Lawrence Crum and Naren Sangvi
  - "Mechanical Tissue Fragmentation by ultrasound: methods, tissue effects, and clinical applications" organized by Vera Khokhlova and Brian Fowlkes
- TPOM reps: Jim McAteer, Bob McGough
- Halloween party planned
- American Indian museum located nearby

May 18-22 2015 in Pittsburgh, PA:

- Special sessions:
  - "Ultrasound Elastography" organized by Mostafa Fatemi and Matt Urban

- "Ultrafast Ultrasonic Imaging" organized by Mickael Tanter
- "Ultrasonic Characterization of Bone" organized by Keith Wear
- TPOM reps: volunteers needed

Future meetings:

- Oct 18-22 2015 in Jacksonville, FL
- Spring 2016 in Salt Lake City
- November 28-December 2, 2016 in Honolulu (joint with ASJ)
- Spring 2017 in Boston (joint with European Acoustical Society), Sunday or Monday through Thursday (not M-F as usual)
- Fall 2018 in Cabo San Lucas, Mexico

The meeting adjourned after about 2 hours.

Compiled and submitted by Bob McGough. Extensive notes were taken during the meeting by Martin Verweij, and his contributions to these minutes are gratefully acknowledged.