

# Minute

## TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

172<sup>nd</sup> Meeting of the Acoustical Society of America  
Honolulu, Hawaii

Tuesday 29<sup>th</sup> November 2016

7:30 PM

Lehua Room

Chair: **Eric Reuter**

Secretary: **Ana Jaramillo**

### Index:

**Section One: Welcome and Acknowledgements**

**Page 1-3**

**Section Two: Committee and Subcommittee Reports**

**Page 3-7**

**Section Three: New Business and Meeting Planning**

**Page 7-9**

## Section One: Welcome and Acknowledgements

### I. Special Announcement – Ken Good

For personal reasons Erica Ryherd has stepped down from her appointment as TCAA Chair. Eric Reuter has stepped up to the Chair position and appointed Ana Jaramillo as secretary

### II. Welcome and Introductions

- Attendance Sheet: 66 attendees
- Attendees are encouraged to become TCAA members if they are not already.
- Also passing around SMMfL signup sheet

### III. Previous Minutes

- Approval of previous minutes
  - Previous minutes (Salt Lake City)  
Tony Hoover moves to approve, Bruce Olson seconds, minutes are approved by majority.
  - Reminder: TCAA Meeting Agenda and Minutes are published on the TCAA website <http://tcaaasa.org>

### IV. Acknowledgements; Thank you to....

- **Whit Au & David Adams** (Meeting Co-chairs)
- **Bruce Howe** (Technical Program Chair)
- **Damian Doria & Ian Hoffman** (TCAA TPOM Rep)

## Minute

- **Session Chairs:** Keiji Kawai, David Woolwort, David Lubman, David Manley, Hayato Sato, Kenneth Good, Takashi Yamakawa, Catherine Rogers, Michael Vorländer, Tetsuya Sakuma, Toshiki Hanyu, Damian Doria, Shinsuke Nakanishi, Niels Adelman-Larsen, Reiji Tomiku, Shane Kanter, John Strong, Kimihiro Sakagami, Motoki Yairi.
- **Paper Presenters:** All 87 paper presenters in the 11 sessions

### V. Congratulations!

- **Alex Case:** President of AES

### VI. Chair's Report

- **Leo Beranek** (September 15, 1914 – October 10, 2016)
- **ASA Strategic Leadership for the Future**  
Thursday, 2:00 p.m.-4:00 p.m. meeting in Rainbow I  
Task Force 2: Membership Diversity & Engagement – approved/funded initiatives:
  - \$30k approved by EC for 2017 to support **Early Career Travel Awards to Boston and New Orleans** meeting (fixed \$500 award each, eligibility: 10 years since last degree; priority to those who present papers, chair session, and/or serve in ASA leadership position) – look for announcement in Call for Papers
  - Planning to kick off **'Hunt Recognition Fundraising Campaign'** in 2017 to endow new award: **'ASA Early Career Leadership Fellows'**
- **Proposed meeting cost increase**  
It has been \$495 for 10 years or so – small increase proposed  
No comments.
- **History of AA/TCAA**
  - Interest in chairing a special session on history?
  - Neil Shaw mentioned Vern Knudsen.
  - Tony Hoover mentioned the book about the history of TCs from ASA (ASA at 75?)  
[http://acousticalociety.org/sites/default/files/docs/ASA\\_history\\_75\\_years.pdf](http://acousticalociety.org/sites/default/files/docs/ASA_history_75_years.pdf)
- **Live Streaming Update**  
Lily Wang: this is the third meeting with streaming. 19 sessions at this meeting (29 counting double time sessions). Going well. No cost yet for people. 224 papers, 175 agreed to be streamed, 140 agreed to being recorded for two weeks. For example, yesterday 15 people were logged for classroom acoustics session.
- **International Year of Sound 2019**  
ICA has submitted proposal to UNESCO
- **Topical Meetings:**
  - **Honolulu: Data Science and Acoustics (Friday) – will be streamed**

## Minute

- **Boston: Neuroimaging and Acoustics**
- **Standards**
  - **S12.60** has been free, thanks to corporate sponsors. One sponsor is unable to continue. Looking for a new \$5000/yr sponsor.
  - **Standards Special Session** – New Orleans
  - **Looking for “standards in action” success stories**
  - **ASHRAE 189.1 Standards for the Design of High-Performance Green Buildings**  
[https://osr.ashrae.org/sitepages/showdoc2.aspx/ListItem/Public%20Review%20Draft%20Standards/ItemID/1583/Attachment/N/189+1+as\\_1stPPRDraft+29Sept2016.pdf](https://osr.ashrae.org/sitepages/showdoc2.aspx/ListItem/Public%20Review%20Draft%20Standards/ItemID/1583/Attachment/N/189+1+as_1stPPRDraft+29Sept2016.pdf)  
45-day public review: Nov 4 – Dec 19
- **Comments on this meeting**

Tony Hoover: real problems with computer this morning, rooms have been quiet.

David Woolworth: have water inside the rooms (Matt Hildebrand agrees)

Other: Better to have same times for beginning of sessions
- **Introductions of new attendees**

## Section Two: Committee and Subcommittee Reports

### I. **ASA Committee Reports**

1. Archives and History (**Vic Sparrow**)
2. Education (**David T Bradley**)
  - A new, full-time Education and Outreach Coordinator, an ASA staff member, has been hired: Keeta Jones!
  - See Meeting Program, Call for Papers, and EdCom Website <[asaedcom.org](http://asaedcom.org)> for regularly occurring EdCom initiatives
    - Listen Up and Get Involved (Girl-Scout Session)
    - Hands-On Acoustics Demonstrations for Middle-School Students
    - Undergraduate Research Exposition
    - Rossing Prize in Acoustics Education
    - Acoustics Graduate Program Database
    - SMMfL (Students Meet Members for Lunch)  
We need a larger pool of volunteers to host student lunches, please consider checking the box when you register for Boston!
  - Stronger connection to all TCs  
We are actively seeking new EdCom members from all TCs. Please pass the word!
3. Medals and Awards (**Bennett Brooks**)

## Minute

- The Medals and Awards are about recognizing people who have made outstanding contributions to acoustics and to the Acoustical Society. TCAA members can think about the awards that are particularly relevant to TCAA, including the R. Bruce Lindsay Award for outstanding contributors under the age of 35, The Helmholtz-Rayleigh Interdisciplinary Award, the Sabine Medal (Silver Medal in Architectural Acoustics), and the ASA Gold Medal. If anyone would like to put forward a candidate that they think is deserving of recognition with a medal or award, then they are welcome to contact me, and I will be pleased to assist them in the process. They can find detailed descriptions of the Medals & Awards on the ASA website. Also, I recommend that they go to the Plenary meeting to see in person what the Medals and Awards are all about.
  - Lily Wang: EC changed requirements for Lindsey award in Salt Lake. No more than 10 post terminal degree. Not limited in age anymore.
4. Membership (**Tony Hoover**)  
It's important to become full member. Get 2 recommendations and apply. If you know someone who should be considered a fellow for distinguished service to society or contributions to acoustics you should nominate them (2 more support letters from fellows).
5. Standards (**Ange Campanella**)  
Chris Struck:
- Terminology standards are now available for free on website with search function.
  - Scholarship to be announced in January, students in architectural, noise and engineering. First award in Spring. \$3000 for first award.
  - Reminder that every TC has a representative from standards. Angelo Campanella is ours.
6. Student Council (**Jay Bliefnick**)
- Announced the website, Facebook, Tweeter and LinkedIn.
  - At this meeting 89 students on Monday's session, 140 at meet and greet, beach party at night. Wednesday is student reception.
  - Graduate programs in acoustics poster session in Boston. Teaching tips for new and not so new faculty members in Boston.
  - Additional travel funds for this meeting (additional to ASAs) 151 applicants, 13 awards.
  - Next meeting is Jay's last.
7. JASA & JASA-EL Associate Editors (**Frank Sgard, Jason Summers, Michael Vorländer, Ning Xiang, Brian Katz**)
- JASA Associate Editor (**Michael Vorländer**)  
100 manuscripts per year, 50% rejection. Francesco (last name?) new editor for worship spaces.
  - JASA-EL Associate Editor (**Ning Xiang**)

## Minute

Wants to see more submissions. Thursday morning workshop about submitting to JASA and peer review process in general.

### 8. POMA editor (**Lauren Ronsse**)

Proceedings of Meetings on Acoustics (POMA) is an editor-reviewed, open-access, online journal published by the Acoustical Society of America (ASA). Articles originate as papers presented at semiannual ASA meetings or at other cosponsored meetings. Both researchers and practitioners are encouraged to submit manuscripts to POMA. Authors are especially encouraged to use POMA for better archiving of special sessions presented at ASA meetings.

### 9. Public Policy (**Ken Roy, Nancy Timmerman, David Lubman**)

- Met this morning. Wind turbine noise, looking to get funding.
- Come up with a policy statement about noise in public places.
- Special session about noise in restaurants and other places in Boston.
- Should ASA participate in ASHRAE's IEQ Global Alliance?
- Request for policy statements on
  - Non-emergency use of auto horns.
  - Long range acoustic devices.
  - Hybrid vehicles.

### 10. Women in Acoustics (**Lauren Ronsse**)

- Everyone is encouraged to attend the Women in Acoustics luncheon held at each meeting.
- WIA sponsored funding opportunities:
  - The Young Investigator Travel Grant is intended to help with travel costs associated with presenting a paper at the meetings. Young professionals who have completed their doctorate in the past five years are eligible to apply if they plan to present a paper at an ASA meeting, are not currently students, and have not previously received the award.
  - The Dependent Care Subsidy is intended to help with dependent care costs associated with attending an ASA meeting. Meeting attendees are eligible to apply if they plan to present a paper at an ASA meeting or hold a leadership position in ASA.

Please see the call for papers for more details on these opportunities for future meetings.

### 11. College of Fellows (**Tony Hoover**)

- Registration for undergraduates was free at this meeting. Invite local colleges to participate. Initiative might not stay within the college of fellows.
- College of Fellows hosts the Lecture and Luncheon, there wasn't one at this meeting, and won't be one in Boston. Next time there will be twice the free tickets to raffle among students.
- There will be a list of all fellows on the website.

### 12. ASA publications (**Neil Shaw**)

- Applications of Room Acoustics – Kramer, was reprinted
- Ning Xiang: Announced the upcoming book he edited.

## Minute

- David Lubman: Steve Garrett's book available for \$30
13. Regional Chapters (**Ken Good**)  
Great outreach opportunity. Join with other local chapters from different societies.
  14. Tutorials (**Michelle Vigeant**)  
Tutorials, short courses and hot topics. Not at this meeting.

## II. TCAA Subcommittee Reports

1. Newman Student Award Fund Update (**Lily Wang, Carl Rosenberg, Bob Celmer**)
  - Michell Vigeant will be next co-chair (3 year terms).
  - In 2016, 12 medals.
  - Student Design Competition announcement coming on Dec 12<sup>th</sup>. 5 awards funded by Wenger.
  - Schultz Grant for AA education. Call for proposals due June 1<sup>st</sup>.
  - Consider donating to support AA education.
  - MIT found tapes of Newman's lectures. They were digitalized.
2. ASA Jam (**Tony Hoover**)
  - Subcommittee of meetings, not TCAA.
  - [www.ASAjam.org](http://www.ASAjam.org) is up. Tomorrow night is the Jam.
3. Classroom Acoustics Update (**David Lubman, Dave Woolworth**)
  - David Lubman: Very intensive classroom acoustics at this meeting.
  - Boston meeting will have an archaeoacoustics. Potential book.
4. WG 44 Speech Privacy In Healthcare - Joint Subcommittee with TC Noise (**Greg Tocchi, Eric Reuter**)  
*ANSI S12.70 American National Standard Criteria for Evaluating Speech Privacy in Healthcare Facilities – Now Available*
5. TCAA Student Paper Award – Results from Salt Lake City  
**1<sup>st</sup> Place: Michael Denison;**  
*"A method to evaluate nonideal effects of anechoic chambers on multiple-angle measurements"*  
**2<sup>nd</sup> Place: David Dick;** Penn State University  
*"Relating listener envelopment to specific time segments in early and late portions of sound fields"*
6. Student Design Competition (**Dave Woolworth, Andy**)  
Already announced.
7. Green Building Acoustics (**Eddie Lau**)
  - Website up in temporary domain. Change to "sustainable" instead of "green". Would like to get comments on the website. Still a work in progress. [GBA.acousticsresearch.com](http://GBA.acousticsresearch.com)  
David Woolworth: Sustainable is a better world to separate from LEED.
  - David Lubman: great interest in classrooms from green buildings. They don't know they need acoustics.
  - Eddie Lau: organize a committee for InterNoise 2017

## Minute

8. Healthcare Acoustics Subcommittee (**Gary Madaras**)  
Rick (Talaske?): Recommendations provided to improve FDA guidelines. They were discarded.
9. TCAA Website (**Sean Browne**)
  - Subcommittee chairs are encouraged to add content. Send to [sdbrowne@armstrongceilings.com](mailto:sdbrowne@armstrongceilings.com)
  - All TCAA members are encouraged to submit project pictures
  - Tony Hoover: Needs to update
10. AIA/CEU Course: (**Bennett Brooks, Ken Good**)  
HSW credit (health, safety and welfare).
11. TPO Rep (**Damian Doria & Ian Hoffman**)  
Damian Doria: Boston is his last, new volunteer needed for New Orleans. It is virtual and not too much work. July probably.  
**After meeting follow up: Shane Kanter has volunteered.**
12. Proposed Architectural Associations (AIA, AES, USITT, ASHRAE, ASTM or other)  
Targeted outreach subcommittee.
  - Looking for volunteers for new subcommittee. Please contact Greg Miller if interested.
    - Greg Miller volunteered to investigate potential connections with AIA.
    - Erin Dugan volunteered to serve as ASTM E-33 liaison
  - Neil Shaw: Society of Motion Pictures releasing Cinema Acoustics standard.
13. Leo & Gabriella Beranek Scholarship Fund (**Bill Murphy**)
  - The Committee was selected per the MOU
    - **Leo & Gabriella Beranek**
    - TCAA Chair: **Eric Reuter**
    - TCNoise Chair: **Bill Murphy**
    - TCAA Rep: **Damian Doria**
    - TCNoise Rep: **Tony Hoover**
14. Concert Hall Research Group (**Robin Glosemeyer, Tim Foulkes**)  
No report.

### Section Three: New Business and Meeting Planning

#### I. New Business

#### II. Planning of Future Meetings

1. **173<sup>rd</sup> Meeting**, Boston, Mass June 24<sup>th</sup> – 29<sup>th</sup> 2017 (Joint with European Acoustics Association)  
Deadline for receipt of abstracts: 9 January 2017  
TPOM: 16 February 2017. Damian Doria and Ian Hoffman

## Minute

*Note: ALL papers will be 20min starting on the hour.*

Bob Koch Chair

- Special Sessions:
  1. Assistive Listening Devices for Listeners in Assembly Spaces (**Joint with EAA; Damian Doria, Peter Mapp**)
  2. *Uncertainty in Laboratory Building Acoustic Standards* (**Joint with EAA & ASA Committee on Standards; Matt Golden**)
  3. Evaluation of Acoustic Environments (**Joint with EAA; Michael Vorlander**)
  4. Comparing US and European Policies, Press, & Acoustics (**Joint with EAA & ASA TC Noise; Dave Woolworth**)
  5. Sound Propagation Modeling and Spatial Audio for VR (**Lori Savioja Dinesh Manocha, Peter Svensson**)
  6. Continuing Advances in Archeo-acoustics (**David Lubman, Miriam Kolar**)
  7. Healthcare for Residential & Long-term Care Facilities (**Kenric Van Wyk – Noise, Speech**)
  8. Retrospective on the work of Bert Kinzey (**Gary Siebein, Dave Lubman**)
  9. Architectural Acoustics and Audio: Even Better Than the Real Thing (**Tony Hoover, Alex Case**)
  10. Noise and Soundscapes in Restaurants and other public accommodations (**Ken Roy, Brigitte Schulte-Fortkamp**)

2. **174<sup>th</sup> Meeting**, New Orleans, La: December 4-8 2017  
Josh Gladden Co-Chairs, Technical Program Chair  
TPOM Representatives: Ian Hoffman & Shane Kanter

- Special Sessions:
  1. Community and Entertainment Sound (**Dave Woolworth, Tony Hoover - Noise**)
  2. Back to the Future: A Look at Multipurpose Spaces, How They've Changed, & What's Next (**Shane Kanter, Jennifer Smid**)
  3. Acoustics of Modern Music Performance Spaces (**Tony Hoover, Bruce Olson**)
  4. Speech Privacy concerns in Open Plan Healthcare Spaces (**Ken Good**)
  5. Perceived Diffuseness
  6. Speech Intelligibility (**Roger Schwenke**)

3. **175<sup>th</sup> Meeting**, Minneapolis, MN: May 7-11<sup>th</sup> 2018  
Peggy Nelson, Bruce Olson Co-Chairs, Andrew Oxenham Technical Program Chair  
TPOM Representatives

- Special Sessions:
  1. Assistive listening (**joint with PA Damian Doria**)
  2. Classroom acoustics



## Minute

3. Laboratory measurements for AA (**Ning Xiang?**) / New materials (**Matt Hildebrand**)
4. Architecture for Acousticians (**Ana Jaramillo, Adel Hinawi**)
5. Auralization (**Shane Kanter**)
6. AIA CEU (**Tony Hoover**)

#### 4. **Future Meetings**, no action required:

176<sup>th</sup> Meeting, Victoria, Canada: November 5-9 2018

177<sup>th</sup> Meeting, Louisville, KY: May 13-17 2019

178<sup>th</sup> Meeting tentatively San Diego: Fall 2019

179<sup>th</sup> Meeting, Chicago, Ill: Spring 2020

180<sup>th</sup> Meeting, Cancun, Mexico: Fall 2020

182<sup>nd</sup> Meeting, tentatively Sidney: Fall 2021

### III. **Technical Initiatives – Reports and Renewals**

Note: Technical Initiatives are meant to inspire and support innovative ideas. Suggestions for appropriate investments in outreach, education, and other ASA activities are encouraged. TI do not automatically roll over.

- **Discretionary Funds:**

- \$5000 annually, can be used to assist Invited Speakers, Student Paper Awards – Temporary *increase to \$6000 for 2017*
- AIA CEU considered on-going

- **Submitted Technical Initiatives:**

- Website Upgrade/Maintenance. \$300  
Tony Hoover moved, Bruce Olson seconds. Approved by majority.

- Other TBD

### IV. **Other Business**

- David Woolworth: submitted AIP grant for educational outreach. Animal and insect acoustics, musical, oceanography acoustics sessions. Soundscapes session. Announced in the program but not a technical session.
- Brigitte Schulte-Fortkamp: proposes to connect the Soundscape outreach with the Soundscapes technical session.
- Ning Xiang: TC chair did very well with his first session.
- Eric Reuter: Reminder that Noise session is tomorrow not Thursday.

### V. **Meeting Adjournment 9:30 PM**

Tony Hoover Moves, Bruce Olson seconds.