

# Agenda

## TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

173<sup>nd</sup> Meeting of the Acoustical Society of America  
Boston, Massachusetts

Monday 26<sup>th</sup> June 2017

8:00 PM

Hynes Convention Center, Room 207

Chair: **Eric Reuter**

Secretary: **Ana Jaramillo**

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### Section One: Welcome and Acknowledgements

#### I. Welcome and Introductions

- Pass Attendance Sheet
- Attendees are encouraged to become TCAA members if they are not already.
- New attendees' introductions

#### II. Previous Minutes

- Approval of previous minutes
  - Previous minutes (Honolulu).  
Tony Hoover moves, Bennet Brooks seconds. Approved.
  - Reminder: TCAA Meeting Agenda and Minutes are published on the TCAA website <http://tcaaasa.org>

#### III. Acknowledgements; Thank you to....

- **Damian Doria & Mats Abom** (Meeting Co-chairs)
- **Ken Good & Damian Doria** (TCAA TPOM Reps)
- **Session Chairs:** Brigitte Schulte-Fortkamp, Ken Roy, Edwin Reynders, John LoVerde, Jordi Poblet-Puig, Anna Astolfi, Viveka Lyberg-Ahlander, David Woolworth, Dinesh Manocha, Lauri Savioja, Peter Svensson, Birgit Rasmussen, Jorge Patricio, James Phillips, Bert Roozen, Herbert Muellner, Ken Good, David Swanson, Tapio Lokki, Michelle Vigeant, Nicola Prodi, Gary Siebein, David Lubman, Tony Hoover, Alex Case, Wolfgang Ahnert, Matt Golden, Stefan Schoenwald, Lieven De Geetere, Miriam Kolar, Elana Bo, Ian Hoffman, Michael Vorländer, Stefan Weinzierl, Ning Xiang, Damian Doria, Thomas Burns, Peter Mapp, Stephen Dance, Daniel Urban.

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- **Paper Presenters:** All 229 papers presented in the 34 sessions

### IV. In Memoriam

- **Kenric Van Wyk**

### V. Congratulations

- **Lily Wang – ASA President-Elect 2017-2018**
- **Michelle Vigeant & Michael Vorländer – Executive Council 2017-2020**
- **David Braslau – ASA Fellow**

*For contributions to noise mitigation and quieter communities*

### VI. Chair's Report

- ASA School – *Living in the Acoustic Environment* May 5-6, 2018 in Chaska, MN
- TCAA Video – Task Force I (Awareness of Acoustics) is looking for someone to lead an effort to create a 5-7 min. video about architectural acoustics for the ASA YouTube channel.
- Fellows – ASA needs more fellows. We are encouraged to engage in a review of our membership and nominate new fellows.
- Joint meeting proposal – Sydney 2021  
Bennet Brooks: asked about a tour of the opera house  
Question asked about if there would be a theme  
Ken Good said it'd be good to join with WestPAC again  
Show of hands was very good in favor  
Bruce Olson: If proposal is not approved by EC meeting will be in the US.
- Comments on this meeting  
Tony Hoover: Rooms were quiet, could hear and see well. Confusing layout of building  
Alex Case: Trouble with computer at every meeting, especially with media in presentations  
Dave Marsh: Frustrating at missing sessions that were at the same time and very relevant to my work  
David Kahn: Some papers seems like they didn't fit their sessions but maybe they fit other sessions  
Matt Golden: Internet is very fast, I like lots of sessions and I can choose what to see  
Comment: Can we propose more joint sessions? TCs are doing similar things separately  
Wolfgang Ahnert: Very cold in the rooms. Technical service was bad.  
Dave Woolworth: Had to take care of technical problems himself  
Comment: High number of withdrawn papers  
Dave Marsh: We don't have proceedings so I don't like missing papers I want to see

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Roger Schwenke: At European society 2008 presentations started at 7 and ended late, this is an improvement

Ken Good: Not a fan of the Sun-Thu format

David Lubman: Cost was high so people cancelled attendance and withdrew papers due to cost

Eric Reuter: Meeting cost is consistent with ASA but joint meetings change things

- Lily Wang: ASA Foundation and Task Force 2. Early Career Award, Hunt Postdoctoral Fellowship will be a 40 year celebration in New Orleans. Membership diversity is the goal of Task Force 2. There will be another Early Career Leadership Award to another early career person, no PhD required.

Only 3% of society is under 40 and not a student

**Section Two: Committee and Subcommittee Reports**

**I. ASA Committee Reports**

1. Archives and History (**Vic Sparrow**)
2. Education (**David T Bradley**)
3. Medals and Awards (**Bennett Brooks**)
  - Bennet Served 3 years
  - Ron Freiheit to be our new rep
  - It's important to honor the people who have done a lot for our society. Gold medal, Silver medal, Lindsey award.
  - Encouraged us to attend the plenary, get involved, know who is who in the society
4. Membership (**Tony Hoover**)
  - Explained the process of nominating fellows
  - Brian Katz: How many fellows per year?
  - Tony: About a dozen
  - David Lubman: It's important to be a fellow to nominate
  - Tony: Nominator and 2 supporting letters = 2/3 have to be fellows
  - Also promoting members from associates to full members, you have the same fees but not privileges
5. Standards (**Ange Campanella**)
  - ASTM:**

A round robin by laboratories practicing ASTM E90 (sound transmission by partitions) is to be executed over the next 2 years (est). The standard specimen will be a kit of steel stud-drywall-fiberglass insulation panel materials furnished from a single source, to be constructed on-site by each participating laboratory.

Open Office speech privacy is being reviewed for updating, incorporating the articulation index (AI, via ASTM E1130).

Closed office speech privacy is measured via ASTM E2638. This measures the sound reduction of speech to locations outside the office, with concern of eavesdropping, the results presently coined as the speech privacy class (SPC). This is now up for review.
  - ANSI:**

Classroom acoustics (ANSI 12.60) continues in usage in North America. Additional sections or additional criteria have been written for movable (temporary) classrooms.
  - ISO:**

ISO TC43/SC2 deals with architectural acoustics. Several of their standards are parallel to ASTM standards on the same topics. Recent SC2 activities include acoustical classification schemes for in Europe (ISO CD19488), and various national regulations for noise insulation. A framework for architectural design of building acoustics is in process (ISO CD/16816-1). This would prescribe the design work procedure used in collaboration with the project architect.
  - Additional reminders:**
    - o 12.60 needs a sponsor (\$5k/yr)
    - o Free standards reminder
    - o ASACOS is looking for organizational members
    - o Terminology Standards available free

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Comment: Classroom acoustics is now part of the building code. No details available now

Comment: Not automatically enforced, still depends on individual standards

Bennet Brooks: proposed that TCAA stays on top of that, when they are meeting so we can take a position on that

### 6. Student Council (Jay Bliefnik)

**Matthew Neal** incoming representative. Penn State Student

How to contact them/find them

Job posting on website, companies encouraged to send them

Dr Dan Russel receiving mentoring award tomorrow

Orientation 160 students, 170 meet and greet

Tomorrow student reception

Resume help desk

Graduate programs in acoustics poster session at this meeting

Teaching tips for new or not so new members session at this meeting

Grant fellowship writing at New Orleans

Students meet members for lunch still a success

### 7. JASA & JASA-EL (**Brian Katz, Francesco Martellotta, Michael Vorländer, Ning Xiang, Frank Sgard**)

a. JASA Associate Editor (**Michael Vorländer, Brian Katz, Francesco Martellotta, Ning Xiang**)

b. JASA Coordinating Editor (**Ning Xiang**)

c. JASA-EL Associate Editor (**Ning Xiang**)

Michael: 21 submissions, 48% acceptance this year. There can be more papers submitted.

Brian Katz: Encourage more publications. Please help us review papers, otherwise we have delays.

Ning Xiang: More associate editors, we have a lot of submissions.

Coordinating editor knows the editors in your field better so he reviews manuscript quickly and sends it to the appropriate editor. JASA-EL has a special nature, it is online and free. 2-3 week decision. Media can be included. Submit papers that are well reviewed, if they need substantial changes they won't be accepted for JASA-EL.

Eric Reuter: JASA is migrating platforms and Ning has been very helpful, the other editors as well.

Lauri Savioja has been appointed editor for a special issue on auralization

### 8. POMA (**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

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encouraged to submit manuscripts to POMA. **Authors are especially encouraged to use POMA for better archiving of special sessions presented at ASA meetings.**

92% acceptance rate. Chairs can write a paper to document the entire session.

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

Nancy: meeting this morning 5 topics discussed. We have a policy on wind turbine noise. Previous meeting question about noise in public spaces like restaurants. People using keyfobs to turn in car horns.

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.

Meetings are open and everyone is welcome. Dependent care subsidies continue.

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

We wear the blue badges so people can approach us. Beranek's scholarship is \$30,000. Do you know who received it? (no answers...) There's a lack of knowledge about these opportunities

12. ASA Publications (**Robin Glosemeyer**)

If you're thinking of writing a book let us know

13. Regional Chapters (**Ken Good**)

Open Meeting tomorrow 7am. Looking at chapters that haven't been active. If you don't have a regional chapter you can find out about how to form one. Bob Coffeen introduced the new sponsor of their student chapter

14. Tutorials (**Michelle Vigeant**)

New Orleans: Tutorial lecture on infrasound. Short course Sunday afternoon to Monday morning on ultrasound. Hot topics in 3 different TCs (AA, NS, UW)

15. ASA Foundation Fund (**Carl Rosenberg**)

16. ASA Jam (**Tony Hoover**)

It's been 10 years!! It's now a subcommittee of the meetings' committee. It's a social on steroids. Tomorrow night 8-12, Room 313. ASA Jam website. It's a safe space.

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### 17. Acoustics Today advisory committee (**Matt Golden**)

Looking for stories. Feature section on young members.

## II. TCAA Subcommittee Reports

### 1. Newman Student Award Fund Update (**Lily Wang, Carl Rosenberg**)

Carl: Anniversary celebration today. Tape transcribed and digitized of Newman giving a lecture. Bill Cavanaugh, Bob Coffeen, Ken Roy, David Egan, Gary Siebein, Peter D'Antonio, Bert Kinsey are retiring and we recognized them.

Lily: Fundraising will be 5 years.

### 2. TCAA Student Paper Award – Results from Honolulu

#### **1<sup>st</sup> Place: Matthew Neal**, Penn State University

*"Design of a compact spherical loudspeaker array for simulating accurate instrument directivities for concert hall measurement and auralization"*

#### **2<sup>nd</sup> Place: Peter Moriarty**; Penn State University

*"Low frequency analysis of acoustical parameters of emotional speech for use with functional magnetic resonance imaging"*

**Tue - Thu Chairs** – Pick up judging forms before you leave!

42 participants at this meeting.

### 3. Classroom Acoustics Update (**David Lubman, Dave Woolworth**)

David Lubman: There has been interest and we should reactivate committee. There is still reluctance to apply the standard. We need research that cuts deeper and not the same thing.

David Woolworth: Neil Shaw wrote a book 20 years ago. He gave some copies away. If anyone is interested in his materials, we will eventually get them into ASA materials.

Ken Good: Work group 57 looking at physical education facilities. Meeting tomorrow at lunchtime.

### 4. Student Design Competition (**Dave Woolworth & Andy Miller**)

Andy Miller: 16 entries at this meeting. Ben Markham, Mark Holden, Logan Pippit judges. Winners from RPI, Japan XX Institute of Technology, Chalmers, National Taiwan University of Science and Technology.

### 5. Green Building Acoustics (**Eddie Lau & Shiu-Keung Tang**)

Building a website. Upcoming Internoise in Hong Kong.

### 6. Healthcare Acoustics Subcommittee (**Gary Madaras**)

Meetings online. Looking for people to get involved.

### 7. TCAA Website (**Sean Browne**)

Subcommittee chairs are encouraged to add content ([sdbrowne@armstrongceilings.com](mailto:sdbrowne@armstrongceilings.com))

All TCAA members are encouraged to submit project pictures  
Migrated to new MailChimp account. We'll have a link so you can subscribe to the list.

Students need to let us know of new emails when they graduate.

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8. AIA/CEU Course: **(Ken Good)**  
Official representative with AIA is now Ken Good.  
Tony Hoover authored the materials. It's a great outreach. You have to be a member of TCAA and attend a training course. Next confirmed is Minneapolis, only a possibility for New Orleans.
9. TPO Rep **(Ken Good & Ian Hoffman [Shane Kanter])**  
Ken was additional at this meeting but Shane and Ian will continue their 3-year terms.
10. Architectural Associations Targeted Outreach **(Greg Miller)**
11. Leo & Gabriella Beranek Scholarship Fund **(Bill Murphy)**  
Tony Hoover: One yearly \$30,000 for 10 years. It has been awarded twice.  
Damian represents TCAA and he's rolling off. We need to nominate someone. Need more information.
12. Concert Hall Research Group **(Robin Glosemeyer & Tim Foulkes)**  
CHRG symposium August 12-15 2018, to be held in Troy, NY, focusing on the EMPAC building at RPI.  
Chicago was 2014.  
Comment: Has it turned into more education than research?



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

**III. New Business**

**a. Proposed Subcommittee on Speech Privacy (Ken Good)**

Following the model of S12.60 we'd like to have a subcommittee to continue the study and promote advancement of speech privacy. Motion made. Ric Dodens seconds. No discussion. Approved. One abstained.

First meeting in New Orleans

Bennet Brooks: Propose a task force that follows up on building code and S12.60 and coordinates with classroom acoustics subcommittee.

David Lubman: two of the recent books may have escaped the attention of people. NCAC awarded Bert Kinsey.

**IV. Planning of Future Meetings**

- **174<sup>th</sup> Meeting**, New Orleans, La: December 4-8 2017
  - **Call for Papers:** June 7
  - **Deadline for receipt of abstracts:** July 10
  - **TPOM Representatives:** Ian Hoffman & Shane Kanter
  - **TPOM:** August 10
  - Special Sessions:
    1. Restaurant Acoustics
    2. Perceived Diffuseness
    3. Speech Privacy Concerns in Open Plan Spaces
    4. Back to the Future: A look at Multipurpose spaces, how they've changed & what's next
    5. Speech Intelligibility in Reverberation and Noise
    6. Impact of Entertainment Sound on Communities
    7. Performance Spaces for Modern Music
  
- **175<sup>th</sup> Meeting**, Minneapolis, Mn: May 7-11<sup>th</sup> 2018
  - **Co-Chairs:** Peggy Nelson, Bruce Olson Co-Chairs,
  - **Technical Program Chair:** Andrew Oxenham
  - **TPOM Representatives:** Ian Hoffman & Shane Kanter
  - *Identify sessions for streaming, professional streaming to be done.*
  - Special Sessions:
    1. Assistive listening systems in assemble spaces (**joint with PA Damian Doria, Tom Burns**)
    2. Acoustics in classrooms and other educational spaces (**David Lubman, Ken Good**)
    3. Laboratory measurements for AA (**Jin Yong Jeon, Ning Xiang**) / New materials (**Matt Hildebrand**)

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4. The interactions between acoustics and architecture (**Ana Jaramillo, Adel Hinawi**)
5. AIA CEU (**Tony Hoover, Bennett Brooks**)
6. Auditory perception in virtual, mixed and augmented environments (**Joint with PP, Phillip Robinson**)
7. Acoustics of lobbies, atria, stairways, corridors, pre-function, etc. (**Logan Pippitt**)

*Special sessions were finalized via email due to the abrupt ending of the meeting when we had to vacate the building.*

- **176<sup>th</sup> Meeting**, Victoria, BC: May 7-11<sup>th</sup> 2018 (joint CAA)
  - Preliminary Special Sessions:

(The TCAA Meeting in Boston was cut short by a scheduling misunderstanding. Preliminary session ideas will be solicited via email in the coming months.)

- **Future Meetings**, no action required:

177<sup>th</sup> Meeting, Louisville, Ky: May 13-17 2019  
178<sup>th</sup> Meeting TBD: Fall 2019  
179<sup>th</sup> Meeting, Chicago, Ill: Spring 2020  
180<sup>th</sup> Meeting, Cancun, Mexico: Fall 2020

## V. 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. TIs 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**
  - a. CHRG - \$5,000 to support tuition assistance for university students attending the 2018 CHRG Symposium  
Ken Good moves, Ben Markham seconds, approved.
  - b. Dave Woolworth. New Orleans outreach program, bringing invited speakers funds.  
Steve Pettyjohn moves, Ken Good seconds. Approved.
- Website Upgrade/Maintenance. \$300

## VI. Other Business

VII. **Meeting Adjournment** 10 PM. Kicked out of building by uniformed guard!!