

Minutes

TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

175th Meeting of the Acoustical Society of America
Minneapolis, MN

Tuesday, May 8, 2018

7:30 PM

Nicollet D3

Chair: **Eric Reuter**

Secretary: **Ana Jaramillo**

In attendance: 73

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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
- Please limit clapping to expedite this meeting

II. Previous Minutes

- Approval of previous minutes
 - Previous minutes (New Orleans).
Bruce Olson moves, Neil Shaw seconds
 - Reminder: TCAA Meeting Agenda and Minutes are published on the TCAA website <http://tcaasa.org>

III. Acknowledgements; Thank you to....

- **Peggy Nelson & Bruce Olson** (Meeting Chair)
- **Andrew Oxenham** (Technical Program Chair)
- **Ian Hoffman & Shane Kanter** (TCAA TPOM Reps)
- **Session Chairs:** Jin-Yong Jeon, Ning Xiang, Logan Pippitt, David Woolworth, Andy Miller, Ana Jaramillo, Adel Hinawi, Philip Robinson, Christopher Stecker, Ken Good, Ian Hoffman, Shane Kanter, Bennett Brooks, Tony Hoover
- **Presenters:** 50 papers presented in 6 special sessions

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- **Sean Browne** (Webmaster)

IV. Congratulations!

- **New ASA Fellows from TCAA**
 - **Jin-Yong Jeon** – For contributions to research and practical design in soundscape and architectural acoustics
 - **Bruce C. Olson** – For contributions to design and modeling of electro-acoustic systems for architectural spaces
 - **Lauri Savioja** – For contributions to room-acoustics modeling and auralization

Be sure to attend the Plenary Session tomorrow, 3:30 to 5:00 pm, Nicollet B/C.

- **DEGA Helmholtz Medal – Wolfgang Ahnert**
- **TCAA Student Paper Award** – Results from New Orleans
 - **1st Place: Matthew Neal**, Penn State University
"A concert hall database of US and European halls: preliminary measurements and results"
 - **2nd Place: Louena Shtrepi**, Polytechnic University of Turin
"Improving scattering surface design with rapid feedback by integrating parametric models and acoustic simulation"
- **TCAA Student Design Competition – David Woolworth, Andy Miller**
 - First honors: Ruoxi Jia, Wei-hsuan Wang, Jingqiu Zhang. Yale school of drama (advised by Damian Doria)
 - Commendation: Jonathan Kawasaki, Chris Landschoot, Jacob Laird. RPI (advised by Todd Brooks)
 - Commendation: Jonas Carlsson, Lina Zachrisson, Lucas Heidemann. Chalmers University of Technology (advised by Wolfgang Kropp, Morten Lund and Peter Chritianssen)
 - Commendation: Lydia Winnige, Clara Havstrom, Anand Kelkar. Chalmers University of Technology (advised by Wolfgang Kropp, Morten Lund and Peter Chritianssen)
 - Commendation: Hasan Busri, Deni Nur Fauzi, Nafiah Salsabila. Sepuluh Nopember Institut of Technology (advised by Dhany Arifianto)

Thanks to judges.

V. Chair's Report

1. TCAA membership update
 - a. In order to be a member of this committee, you must maintain your ASA membership. Several people have indicated interest in being committee members but are not ASA members.

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- b. Please update your email address on the sign-in sheet. If you are graduating in the next year, consider using a more permanent address.
2. Strategic Leadership for the Future (Lily Wang)
 - a. Consider attending Strategic Plan Champions meeting, Thursday 2-4, Minnehaha
Task forces: 1) Awareness of acoustics, 2) Member engagement and diversity, 3) Dissemination of information and 4) Financial stewardship.
Lily Wang: we want everyone to participate in open meeting
3. Change in ASA financial model
 - a. Executive Council has approved a proposed change to the bylaws to create change to an elected treasurer. The treasurer will be tasked with strategic financial planning. A financial management company has been hired to take over day-to-day accounting and reporting tasks.
 - b. A change to the Bylaws requires a vote of the membership, which will take place tomorrow. Red card in registration packet.
4. Education and Outreach
 - a. Acoustics Program Directory
Please add your program or make any updates at:
<http://exploresound.org/explore-sound-home/university/acoustics-program-directory/>
 - b. Student Video Competition
<http://exploresound.org/student-video-challenge/>
5. New Technical Specialty Group in Computational Acoustics – Keith Wilson, Chair
This is the first step to maybe becoming a TC
6. Government Relations – Vic Sparrow to visit this meeting
7. Live streaming/archiving
 - a. Students/others needed to help edit recorded sessions. See Lily Wang.
Lily Wang: Looking for people to help editing, no expertise required
8. Comments on this meeting
Steve Pettyjohn: Acoustics not great, noise between rooms
Bruce: The new doors were supposed to be great
David Kahn: Food was exceptional, plenty of seating
Matt Golden: Abstracts were due too early
David Conant: Really good meeting
Brigitte Schulte-Fortkamp: Good place, nice location. Some sessions with a lot of no-shows

Section Two: Committee and Subcommittee Reports

ASA Committee Reports

1. Membership (Tony Hoover)

Please check to be sure that you are a Full Member (not still an Associate or a Student). Fees are the same than for associate. You can check the ASA Directory: <https://acousticalsociety.org/asa-membership/> => Membership Directory

If not yet a Full Member, application forms are on the ASA Website; you'll need two Sponsors/References that are Full Members or Fellows....and who should be quite easy to find here at this meeting.

<https://acousticalsociety.org/asa-membership/> => Download Application Form

2. JASA & JASA-EL

- a. JASA Associate Editor (**Michael Vorländer, Brian Katz, Francesco Martellotta, Ning Xiang, Lauri Savioja, Frank Sgard**)

Ning Xiang: There is going to be a new cover page with images from papers

Neil Shaw: The color made them easy to find!

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

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

Is a very good platform for short contributions to be published quickly. Includes sound clips. Manuscripts need to be ready, no multiple revisions. Anyone can download for free.

Lauri Savioja: Issue on auralization coming up.

3. POMA - Proceedings of Meetings on Acoustics (Lauren Ronsse)

It's 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.**

4. 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

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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.

Roundtable discussion went very well today.

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

The Society Luncheon and Lecture Hosted by the College of Fellows (note, all are invited) in NOLA was about gravitational waves, and the first measurement of gravitational waves only a matter of weeks before, at labs in Louisiana and Washington. Luncheon/Lecture in Minneapolis (sorry, sold out) will be presented by Cantus, the acclaimed men's vocal ensemble.

ASA increased number of free tickets for students from 13 to 26 for the Luncheon/Lecture. This is two tickets for each Technical Committee. Goal is to match each student ticket winner (via raffle at Student Reception) with volunteer Senior member/Fellows in their TC to accompany to the Luncheon/Lecture. TCAA is usually well represented (thanks!). Matching that many winners to that many volunteers in 13 TCs is challenging, and we will try a new system in Minneapolis (thanks Kelly Whiteford, CoF Student Rep!).

ASA is supporting Meeting Registration for undergraduates, reducing fees for undergraduates to \$25! This is the latest development of outreach to potential future acousticians.

There was no single record of all ASA Fellows. We should soon finalize the list, directed by Ning Xiang, gathered by students from Penn State and U Miss (each having complete collections of JASA).

6. **Regional & Student Chapters** (Ken Good)

Meeting Wednesday, 7:00am

Exciting news...we will be reviewing an application for an Asia Chapter. Chapters are a great way to bring the National meeting home and engage folks who could or would not come to the national meeting. They are also great opportunities to cooperate with other organizations such as AIA, AES and more. See Ken about engaging, starting or reviving a chapter near you.

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

Tenth Anniversary Jam was in NOLA, at One Eyed Jacks (site of the original ASA Jam). Thanks Dave Woolworth! Note: the first several Jams were funded by TCAA initiatives; now the ASA Jam is a Subcommittee of Meetings Committee.

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Minneapolis Jam will be Wednesday 8pm to midnight, Lakeshore Ballroom in the Hyatt. Thanks Bruce Olson and Matt Hildebrand! Note: Inaugural Student Band Showcase should start about 9:30pm! Thanks TJ Flynn and Brandon Lee!

8. **Acoustics Today advisory committee** (Matt Golden)
The committee has completed its task of getting *Acoustics Today* off the ground and has disbanded.
9. **Standards** (Angelo Campanella/Ron Sauro)
Ron Sauro: ISO 354, increase repeatability by mandating that all reverb rooms be identical. There are some objections.
17497-1 scattering coefficient is up for renewal.
ASTM diffusion, in need of participation from non-manufacturer users
10. **Student Council** (Matthew Neal)
2 more meetings to serve for Matt.
Usual student events. 38 attendees at introduction to TCs, 45 to outing.
When you sign up for registration you can sign up for smmfl. 72 students/members matched.
The video challenge, a goal is that you pick a question to be answered, other people can learn about acoustics.
Mentor winner Lynn Werner. You do not have to be a student to nominate, just an ASA member.
Ron Freiheit represented TCAA at intro to TCs.
11. **Panel on Public Policy** (Brigitte Schulte-Fortkamp)
Noise in public accommodations initiative, acoustics in restaurants is a hot topic; we want a subcommittee to work on available data from special sessions.
(Bennett Brooks suggests to add Speech to that group).
ASHRAE prospective partnership, in the hands of Ken Roy.
Big attendance at meeting today.
Neil Shaw: New Zealand society group lists every restaurant.
Damian Doria, Steve Pettyjohn interested in joining subcommittee.
12. **Archives and History** (Vic Sparrow)
13. **Education** (David T Bradley)
Rolling off now, needing a new representative.
14. **Medals and Awards** (Ron Freiheit)
David Grisinger at last meeting Silver Award.
15. **Tutorials, Short Courses, Hot Topics** (Need representation)

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16. **ASA Foundation Fund** (Carl Rosenberg)
Recommending to executive council for awards and scholarships. We need to raise funds for this. Currently raising funds for early career.
17. **ASA Publications** (Robin Glosemeyer)
David Bradley: New book approved for music education spaces. Lauren Ronsse and Shane Kanter coauthors. acousticsbook@gmail.com

TCAA Subcommittee Reports

1. **Speech Privacy** (Ken Good)
Our second meeting will be Wednesday, 5:00pm. The New Orleans kick off was successful with a full room & interdisciplinary participation was great.
We identified key work areas and will start with basic terminology, existing standards, minimum background levels, and will collaborate with TC Speech.
Our primary objective for tomorrow's meeting will be to identify tasks, teams and ownership for within each area.
If you would like to become part of the team all are welcome to join us tomorrow and/or click [HERE](http://eepurl.com/c0TJ8j) (http://eepurl.com/c0TJ8j) to self-subscribe.
2. **AIA/CEU Course** (Ken Good)
This course continues to grow as a valuable outreach, educational & business development tool. By serving your local architecture firms provides an opportunity to build relationships, and educate on the importance of acoustics in there design and planning.
To qualify as a presenter you must be: 1) A member of ASA, 2) a member of TCAA, and 3) have completed the presenters' course.
The presenters course will be tomorrow, 1:00-3:00, Lakeshore A

Tony Hoover: 10 years now.
Bennett Brooks: Material developed by Tony, approved by a committee. You can take the course and then become a TCAA member if you're not one yet.
Eric Reuter: TCAA membership is only updated with ASA once a year. We can appoint you earlier if needed, please contact us.
3. **Concert Hall Research Group** (Robin Glosemeyer & Tim Foulkes)
Meeting planned for this summer has been postponed until 2019.
4. **Healthcare Acoustics Subcommittee** (Gary Madaras)
Nothing to report.
5. **Classroom Acoustics** (Dave Woolworth, David Lubman)
Nothing to report.

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

Nothing to report.

7. **Newman Student Award Fund Update** (Ian Hoffman, Bob Celmer, Michelle Vigeant)

Lily Wang: It's 31 years old. Rolling off, new person is Ian Hoffman. Do people need a paper version of the newsletter? (Most people answered no).

Student Design Competition, Newman Medals and Shultz Grant.

Finalizing an electronic version of Robert Bradford Newman's lectures. Audio and transcripts are ready.

Neil Shaw: Lily is moving to president.

Section Three: New Business and Meeting Planning

I. New Business

Eric Reuter: I'd like to see us improving our elections of committee leadership. Typically the Secretary has moved to Chair after learning the process for 3 years. Want to propose a nomination committee be formed to nominate a chair-elect, vote electronically so everyone can vote.

Matt Golden: Strongly support the idea

Michelle Vigeant: Support electronic vote especially. Maybe 3 1-year secretaries to choose from as chairs.

Tim Foulkes: 15-20 years ago committee was 20% of its current size. In favor of reconsidering now that is a big TC.

Rick Talaske: Past chair in the 80s. I opened elections at that time.

Steve Pettyjohn: Reinforce that the proposed changes are good. We need to include decisions for Secretary, not only for Chair.

Ken Good: Elections are for Chair-elect and then moving to Chair. Better continuity.

Ning Xiang: I remember 1991 when Rick held that meeting. We have grown in a healthy way.

Matt Golden: Does it have to be 2 3-year commitments?

Eric Reuter: No. Only Chair for 3 years mandated by ASA.

Ken Good: The 3 years as secretary are very important

Alex Case: Propose forming a subcommittee

Vic Sparrow: Task Force 1 representative. Awareness of acoustics. Never tried to bring that awareness to the federal government like other societies. Joined by Jennifer... If you are visiting a representative, what would you ask for?

Rick Talaske: I'd ask for not regulation or funding but model noise ordinances

Matt Golden: Product noise labeling

David Woolworth: Group 27 does the model noise ordinances. Did some work at this meeting.

Angelo Campanella: Model noise ordinance used to exist.

Ron Sauro: To reestablish the acoustics grouping at NIST

Steve Pettyjohn: Refund research like backup signals...

Ken Good: HIPPA has regulations done easy

Gary Siebein: Funded building science research. Hearing damage risk criteria. Federal noise standards, specific acoustic events. Building performance and building codes. Threshold requirements. EPA basic acoustic revisitation.

Matt: Test labs to be accredited. NatLab

Bennett Brooks: Support international standards participation. ISO participation is voluntary and not supported.

Tony Hoover: Adopting something like the classroom acoustic standard

Neil Shaw: As an expert witness I find inconsistencies in standards

Bennett Brooks: At national level there should be some unity

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David Conant: Concerned about mandatory regulations. An engineer could be in jail for not measuring levels exactly according to law.

Vic Sparrow: Taking these ideas back to technical council, we'll have surveys later.

II. Planning of Future Meetings

- **176th Meeting**, Victoria, BC: May 7-11th 2018 (joint CAA) – *The Empress*
 - **TPOM Representatives:** Ian Hoffman & Shane Kanter
 - **Special Sessions:**
 1. **Sustainable Acoustics in Social Spaces**
Eddie Lau, Andy Chung
 2. **Microphone Array Applications in Room Acoustics**
Michael Vorländer, Gary Elko
 3. **Advances in the Laboratory Testing of Acoustical Materials**
Ron Sauro
 4. **Validation of Acoustical Modeling and Analysis**
Logan Pippett, Ben Bridgewater
 5. **Architectural Acoustics Design Achievement**
Jin-Yong Jeon , Ning Xiang
 6. **In Honor of Murray Hodgson**
Maureen Conolly, Dave Woolworth
 7. **Even Better than the Real Thing**
Alex Case, Tony Hoover
 8. **Acoustical and Well Building Standard**
Ethan Bourdeau

- **177th Meeting**, Louisville, KY: May 13-17, 2019 – *Galt House*
 - **TPOM Reps:** Shane Kanter & VOLUNTEER NEEDED (3-year term)
 - **Special Sessions**
 1. **Speech Privacy**
Ken Good, Eric Reuter
 2. University Schools of Music (Brian Corry)
 3. Room Acoustics Simulation and Auralization (special issue contributors)
 4. Soundscapes and Standards (Brigitte Schulte-Fortkamp)
 5. Modern Tools for Simulation of Acoustics (Bruce Olson)
 6. Restaurant Acoustics (Brigitte Schulte-Fortkamp)
 7. Libraries and Media Centers (Tony Hoover)

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- **178th Meeting, San Diego – Hotel Del Coronado**
 - **Preliminary Special Sessions**
 1. Large Music Rehearsing Spaces (Brian Corry)
 2. Architectural Soudscapes (Gary Siebein)
 3. General Building Acoustics (Matt Golden)
 4. New Materials or Novel Reinterpretations
 5. Archaeoacoustics
 6. Materials and methods to mitigate

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

179th Meeting, Chicago, IL: Spring 2020

180th Meeting, Cancun, Mexico: Fall 2020

181st Meeting, TBD: Spring 2021

182nd Meeting, Sydney, Australia: 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. 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 ongoing
- **Submitted Technical Initiatives**
(none submitted)

Meeting Adjournment