

Minutes

TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

165th Meeting of the Acoustical Society of America
Montreal

Tuesday 4 June 2013

7:30 PM

513abc

Chair: **Alex Case**

Secretary: **Ken Good**

I. 7:30 The Chair opened the meeting with welcome and introductions and Announcements

- Welcome, especially to first time attendees and students. The TC welcomed approximately 25% of the audience as 1st time or student attendees.
- Please mark attendance list and verify your contact information. 101 attendance
- Consider joining this committee. If you have or soon will present papers, chair special sessions, and wish to contribute to the success of the ASA through subcommittee participation, indicate your desire to join this committee on the attendance list.
- Jam Wed night 20:00 (that's approximately 8:00 pm)

Maisonneuve Room of the Intercontinental Hotel

Jam with your fellow acousticians. The ASA Jam is an opportunity to get to know your colleagues and play some great music together. Sound system, backline, and instruments will be provided.

Feel free to bring your own instruments, tabs, lyrics, glitter outfits, etc. More at brooksacoustics.com/asajam

II. Previous Minutes

- no additions or corrections were presented
- A motion to approve the Kansas City Minutes was seconded and passed

III. Acknowledgements

Thanks to:

- **Michael Stinson** (General Chair)
- **Luc Mongeau** (Technical Program Chair) 1600 ICA papers!
- **Eric Reuter** (TPOM rep)
- **Norman H. Philipp, Andy Miller, David Woolworth** (Student Design Competition)

- Session Chairs: **Clemeth Abercrombie, M. Ercan Altinsoy, Alex U. Case, Samuel Clapp, Jesse Ehnert, Roger M. Ellingson, Matthew V. Golden, K. Anthony Hoover, Sungyoung Kim, Jean-Philippe Migneron, Boaz Rafaely, Eric L. Reuter, Lauri Savioja, Isabelle Schmich-Yamane, Bonnie Schnitta, Jing Tian, Michael Vorländer, Diemer de Vries, Wieslaw Woszczyk, Ning Xiang**
- All 144 AA paper presenters.

IV. Congratulations!

- **Leo Beranek** 75 Year Award – The First Ever.

A celebration of Leo's accomplishment immediately followed the committee meeting.

V. (7:40 PM) Chair's Report

- Comments on this meeting included, up load presentation program was better than expected – kudu to the tech team, very good rooms (low background noise), the online planner was great however not *Android* compatible

VI. (7:55 PM) ASA Committee Reports

1. Archives and History (**Vic Sparrow**)

Here is the quick update: I did have a chat on the phone this week with Eric Wolfram who is the laboratory manager now at the Riverbank Laboratories (a subsidiary of ALION science). He indicates that all is well at Riverbank, and the lab now has a long term lease with their landlord (They didn't have this by the time of the Kansas City Meeting). So it seems that the archives and Riverbank lab are now secure, at least or the next few years.

2. Education David Bradley was at the education meeting, they will have a listen up and get involved and the Girl Scouts program – looking for a replacement for Wendy
3. Medals and Awards (**Tim Foulkes**) Nothing to report
4. Membership (**Ron Freiheit**) The members committee is encouraging the nominations for fellowship. Members can review the TCAA members list at the [TCAA website](#). Current Fellows are listed in bold
5. Standards (**Ange Campanella**) Ken Roy reported that he was working with Leo Snyder and that he would attend the building code hearing that was scheduled in June 2013.
6. Student Council (**Ellen Peng**) Sam updated; reported on many student events for the week as listed in the program. Promoted twitter and facebook ASA students communications. Voted on the ASA student award... will be announced in SF. Smart phone app competition for call for papers.

- Please welcome our newly elected AA student representative to the Student Council.
7. JASA and JASA-EL Editor (**Lily Wang, Frank Sgard**)
 - Thanks Ning, for years of service to this committee!
 - Many thanks to all of those who have served as reviewers, particularly with the new shortened 3-week deadlines! Ning had kind words regarding the 9 years of services. Welcome our new editor Michael Vorländer
 8. POMA editor (**Ralph T. Muehleisen**)

We are looking for a co-editor. Please see your TCAA Chair for more information on duties and responsibilities if interested in serving.
 9. Public Policy (**Ken Roy, Michelle Vigeant, Nancy Timmerman, David Lubman**): The question was raised, if we have standards regarding animal and bio-acoustics. Suzan Blazer reported that we do not currently however a standard for lab animal acoustics is in process.

Nancy reported that pop has 2 standards in progress –

 - Diversity statement to Executive Counsel
 - Wind turbine committee. The Turbine team has several upcoming sessions and more than 21 people working on it – “we have a draft and will discuss in tomorrow’s meeting”.

David Lubman suggested that we look to update our policy statement on classroom acoustics. David (reported) a widespread misunderstanding that all forensics acoustics was relegated to the Speech forensics subcommittee of the Technical Committee on speech – we will have a forensics acoustics special session at San Francisco that is open to all forensic acoustics – speech and non-speech.

Also reported a concern with the relationship with ASHA and the sound amp (classroom) business.
 10. Women in Acoustics (**Erica Ryherd**) Michelle reported that the women in acoustics special lunch. Inviting women to show and help with the girl scouts event.
 11. College of Fellows (**Tony Hoover**)

Aligned with its mission of student mentorship and increasing the participation of students in the ASA, the College of Fellows is continuing a program to "Take-a-Student-to-the-Fellows-Luncheon". This pairs a student with a senior member/Fellow in their technical area for the Fellows Luncheon (more properly named “Society Luncheon and Lecture”) at the ASA meetings.

The ASA provides, at no cost, 13 tickets to the Student Council for the Fellows Luncheon, so that a ticket can be given to one student in each of the 13 technical areas. The Student Council typically raffles off and distributes the tickets at its

Student Reception on Wednesday evenings, the evening before the Fellows Luncheon.

While there is no luncheon at this conference in Montreal, we will need a senior member/Fellow from this committee who is already planning to attend the Luncheon in San Francisco in December 2013 to volunteer to accompany a winning student in Architectural Acoustics. It would be great if the volunteer were to also attend the Student Reception on the Wednesday evening prior in San Francisco to meet the student (and enjoy the Reception).

The Society Luncheon and Lecture is typically held on Thursdays of the ASA meetings. The senior member meets the student at 11:45 AM, outside the Luncheon room. We will also be there to help with the introductions and seating arrangements. We anticipate that there will be a poster or sign near the door, as a reference point at which to meet and to connect students with senior members.

1 Volunteer: Lilly Wang

12. Other (Books+, Regional Chapters, Tutorials, etc.)

VII. (8:15 PM) TCAA Subcommittee Reports

1. Newman Student Award Fund Update (**Bill Cavanaugh, Carl Rosenberg**) Carl reported that financially we are getting by, but encourage considerations for donations. Each TCAA ASA member should have received an envelope for donations. Newmanfund.org
2. Concert Hall Research Group Update (**Tim Foulkes, Michelle Vigeant**). Tim reported: CHRG is in the planning stages for a summer workshop in Chicago in August 2014. The focal point of this conference will be a concert, tour, and technical presentations on the acoustic design of the Pritzker Pavillion in Millennium Park. Once plans are firm, there will be announcements in the NCAC newsletter, the TCAA web page, and in TCAA meetings
3. Classroom Acoustics Update (**David Lubman, Lou Sutherland, Bob Coffeen, David Woolworth**) Class room acoustics proposed (aaas) symposium in Chicago with Peggy Nelson, Bridget Shield, and David – The Class room booklet is done and in the approval process by books plus. 3 volunteered to review and comment. The booklet for school administrators was rejected and need to be re-looped for significant revisions.
4. Acoustic Data Working Group (**Ron Sauro**): Ken Good reported that Ron was unable to attend the Montreal meeting but they are in the process building the following for testing:
 - a. 2x4 framed wall, framed with wood at 16 inches, with and without insulation
 - i. single layer gyp both sides
 - ii. 2 layers both sides

iii. 1 layer one side, 2 layers one side

b. Later this summer we will be doing the same with steel studs.

c. *Note: STC data will be provided as well for these assemblies*

The Working Group is soliciting addition suggest for other "standard materials or construction" that should be tested.

Per the Kansas City Meeting, the Working Group is currently organizing a measurement plan, procedures and communication and reporting structure.

5. Joint Subcommittee with Noise on Speech Privacy (**Greg Tocci**). Ken Good reported that the Working Group has submitted a Draft Standard S12.44 for Speech Privacy in Healthcare
6. Worship Space Book Subcommittee (**David Bradley, Erica Ryherd, Lauren Ronse**) Books plus has responded positively, call for interest is still open ...planning a call for contributions.
7. TCAA Student Paper Award – Results from Kansas City (**Ken Good**)
 - 1st **Johannes Klein** Reciprocal binaural room impulse response measurements
 - 2nd **Daniel Marquez** Sound power measurements in non-ideal enclosures using acoustic energy density
8. Student Design Competition (**Norman Philipp, Andy Miller and Dave Woolworth**) Dave and Norman thanked all who helped with the Student Design Competition here in Montreal and that another companioning is planned for the Providence meeting.
9. Green Building Acoustics (**Lucky Tsaih**) **Lucky is the new Chair for the Green Building acoustics committee and is in process of re-organizing the Working Group. A short survey to provide direction for the group will be sent to the TCAA membership following the meeting. Anyone interested in joining the Work Group can contact Lucky**
10. Subcommittee on building performance research and standards guidance (**Ken Roy**) – Nothing to report
11. TCAA Website (**Sean Browne**) – Nothing New to report

VIII. (8:45 PM) New Business

- Election of new TCAA Chair. **Ken Good** and **Erica Ryherd** have been selected by the nomination committee as candidates. Election Results New TCAA Chairman Ken Good. Ken is pleased to announce that Erica Ryherd has accepted to serve the TC as Secretary.
- Other new business – Noise in hospitals Fgi guidelines does not deal with existing buildings. Motion to form a new Working Group on Healthcare Acoustics was presented by Matt Golden motion – 2nd Lilly Wang to potentially be joint with TCNoise....motion carried – *New WG on Healthcare Acoustics; WG Chairman – Gary Madaras*

VIX. (6:50 PM) Planning of Future Meetings

- **San Francisco, CA 2-6 December 2013**

Program is complete. No action required by this committee.

- **James Phillips**, Chair; **Roger Schwenke**, Technical Program Chair
- **TPOM Representative** (July 26-27 2013): Still Open at this date
- Abstracts Due → Monday 8 July 2013
- Call for papers is published, online.
<http://acousticalsociety.org/sites/default/files/docs/SanFrancisco_call_for_papers.pdf>
Spread the word to your friends and colleagues. Time is of the essence.
- Chairs, invite your experts. Experts, submit your abstracts:
 1. Acoustic Parameters of Materials: Their Definition, Measurement, and Uses in Architectural Acoustics (Joint with Physical Acoustics)
Organized by: **Ronald A. Sauro**
Descriptions of new terms, re-descriptions of old terms, new and updated measurement techniques and new and novel uses of these materials parameters in projects
 2. Acoustics in Coupled Volume Systems (Joint with Signal Processing in Acoustics)
Organized by: **Peter Svensson, Ning Xiang**
Theoretical, numerical and experimental investigations for teleconferencing rooms, performance venues, and worship spaces
 3. AIA CEU Course Presenter Qualification
Organized by: **K. Anthony Hoover, Bennett C. Brooks, Norman H. Philipp**

Attendance at this class is required for those who wish to qualify as a presenter of the TCAA course on architectural acoustics for -hour credit in the American Institute of Architects Continuing Education System

4. Experience in Forensic Architectural Acoustics (Joint with Noise)

Organized by: **David Lubman, Matthew V. Golden**

There has been much acoustic-related litigation in California and elsewhere involving condominium construction defects and other juridical matters. Contributors who have been involved with such cases will describe acoustical case studies

5. Innovations and Challenges in Healthcare Acoustics (Joint with Noise and ASA Committee on Acoustics)

Organized by: **David M. Sykes, Kenric D. Van Wyk, Erica E. Ryherd**

Architectural acoustics, noise, and vibration design strategies, and evaluations of occupant response for healthcare settings, including perspectives from the consulting and research communities

6. Restaurant Acoustics (Joint with Noise)

Organized by: **Eric L. Reuter, Steven D. Pettyjohn**

Research and case studies related to acoustics of restaurants

7. Separating Spaces: Adventures in Acoustic Isolation

Organized by: **Stephanie Hoeman, Shane J. Kanter**

Investigations and case studies of isolation of acoustically sensitive spaces

8. The Enduring Contributions of Two Giants in Building Acoustics: Ronald L. McKay and Warren E. Blazier

Organized by: **David A. Conant**

Retrospective of the projects and lasting contributions of two leaders and innovators at Bolt Beranek Newman whose mark on architectural acoustics, noise, and vibration control are universally admired and enjoyed by laymen

- **Providence, RI 5-9 May 2014** Final Special Session Forms due tonight.
 - **James H. Miller, and Gopu Potty**, Co-Chairs; **James Lynch**, Technical Program Chair
 - **TPOM Representative:** Tim Folks
 - Special Sessions: No more than 9, please. Complete the Providence Special Session Form (Session Title, Descriptive Sentence, Chair(s), Contact Info) and deliver to TCAA Chair tonight.

1. Psychoacoustics in rooms (joint with PP)

Philip W. Robinson, Frederick J. Gallun

The session will focus on auditory perception in rooms and its relation to traditional anechoic or headphone based measures. Topic areas will include the effects of reflections and reverberation on speech transmission, localization and spatial separation, frequency and pitch perception, loudness, and distance perception. The discussion will include the normal auditory system, as well as aspects of hearing impairment and listening with hearing devices in rooms.

2. Session in Honor of Chris Jaffe - **Bill Cavanaugh, Alex Case, and Tony Hoover**
3. Exploring 2014 Sound and Vibration Guidelines and case studies for healthcare facilities - Ed Logsdon
4. Joint with noise SS methods and case studies on architectural projects – Bennett Brooks
5. distinction Knudson lecture - David Lubman and IT
6. Uncertainties in objective measurements – Lilly Wang
7. Lucky – Acoustics issues with green buildings - Lucky Tsaih

- **Indianapolis, IN 27-31 October 2014**

- **Patricia Davies, Kenneth DeJong**, Co-Chairs; **Robert Port**, Technical Program Chair
- TPOM Representative: __ Kenric Van Wyk__
- Proposed sessions. We need 5 or 6 tonight with:
Title / Name of Organizer / Co-sponsoring Committee:
 1. Tony Hoover and Eric Reuter – Named session for Dick Campbell
 2. Tony Hoover – Audio and architectural acoustics
 3. Gary Madaras - Healthcare acoustics
 4. Matt Golden – Acoustic Materials
 5. Bonnie Schnitta - Room acoustics for the aging community
 6. Bob Coffeen – Auralization as an aid to acoustically proper owner / architectural design decisions
 7. Classroom Acoustics – Norm Philipp (added post meeting)

- Future Meetings, no action required:

- 169th Meeting, Pittsburg, PA, 18-22 May 2015, **Robert Keolian** and **Matthew Poese**, Co-Chairs
- 170th Meeting, Jacksonville, FL, 2-6 November 2015, **Richard Morris**, Chair
- 171st Meeting - Salt Lake City. UT **Scott Sommerfeldt** and **Kent Gee**, Co-Chairs
- 172nd Meeting Honolulu, Hawaii, Joint with Acoustical Society of Japan
- 2017 Joint ASA/EAA meeting proposed

IX. (9:05 PM) Technical Initiatives for 2012 and 2013 – Reports and Renewals

- Technical Initiatives are meant to inspire and support innovative ideas. Suggestions for appropriate investments in outreach, education, and other ASA activities are strongly encouraged.
- Website Upgrade/Maintenance. Thanks to **Sean Browne!** Please email him <SDBrowne@Armstrong.com> if you have ideas and want to help. (preapproved) \$300

- Travel Funds for Invited Speakers (preapproved) \$1500
- Student Paper Awards (preapproved) \$1000
- **AIA/CES Provider Renewal \$850 for 2014** (2013 was already paid) by Bennett Brooks Motion – Norm – motion passes

The annual cost to renew the registration of the course with the AIA is \$850. We have had success with this program with about a dozen classes held this year do far, with scores of participants. We look forward to continued success with the program for TCAA members and their course participants.

- **CHRG Summer Institute 2014 \$5,000 for 2014** by Tim Foulkes
To help university students attend the CHRG workshop we are planning for summer 2014. Norm motion – motion passed

TI for Knudsen for Providence and Indy, \$1,000 each - motion passed

TI to pay for images \$300 for classroom acoustics. Motioned passed

X. (9:25PM) Other New Business

Tony – Charles thank you for service and Alex

XI. (9:30 PM) Meeting Adjournment

Move to adjourn and passed at 9:10