

Minutes

TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

164th Meeting of the Acoustical Society of America
Kansas City

Tuesday 23 Oct 2012

7:30 PM

Trianon C/D

Chair: **Alex Case**

Secretary: **Ken Good**

I. Welcome and Introductions

- 7:33pm the chair opened by welcoming the 22 new and student attendees, and the total 90 meeting participants.
- The attendance sheets were distributed with the request to verify your contact information. If you are not currently a member but wish to formally join this Technical Committee please indicate on the attendance sheet. If you are already a member, and see your term is about to expire, this attendance sheet is the best place to indicate your desire to continue serving this committee.
- Also passed is an alma mater information sheet. The TC was requested to review, verify, update, or correct the information in the Graduate Program Directory, and return to the front of the room.
- **David Lubman** introduced guest **Bridget Shield** from the Urban Engineering, London South Bank University. The TC extends a warm welcome.

II. Previous Minutes

- The Secretary gave a brief explanation that the formal Meeting Minutes and Meeting Agenda are posted on the TCAA website. Drafts of the meeting minutes may be emailed to the TC for accuracy, comment, and feedback but all formal meeting are posted on the TCAA site.
- Tony Hoover moved to accept the Hong Kong Meeting Minutes – motion seconded and passed.

III. Acknowledgements

Thanks for an excellent conference program and location!

- **Bob Coffeen** (General Chair)
- **Lily Wang** (Technical Program Chair)
- **Norman Philipp** and **Yun Jing** (TPOM reps)
- **Scott D. Pfeiffer** (Vern O. Knudsen Distinguished Lecture)
- Session Chairs: **Bill Cavanaugh, Bob Coffeen, Matthew Golden, David Griesinger, Timothy Gulsrud, Joel Lewitz, David Lubman, Norman Philipp,**

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Eric Reuter, Ken Roy, Ron Sauro, David Sykes, Lily Wang, David Woolworth, Ning Xiang

- ASA Jam organizer **Joe Nickell** , jam website **Bennett Brooks**, advice and resources planning **Eric Reuter**, and for the poster **Ben Toews**, local and other support by support **Jeff Szmanski, Kenny Good, Eric Dieckman**, and overall leadership and inspiration **Tony Hoover**
- And all 67 paper presenters.

IV. Congratulations!

- New Fellow: **Scott D. Pfeiffer**

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V. Chair's Report

- *Technical Council "pulse of the Society" responses*
- Acoustics Today and Echoes are sent to all members.

- Acoustics Today, do you....

Like	88
Dislike	0
Don't Care	2

- Echoes, do you....

Like	83
Dislike	1
Don't Care	6

- Discussion & comments:

- Can they be combined?
- How about Echoes in electronic format, and Acoustics Today in print?

- Would you welcome it/them in electronic format only?

Yes	61
No	30

- JASA Archives, and Acoustics Today (1929 to 2009) have been scanned and made searchable. IF this were on sale as a USB drive for \$150, would you want buy it? (These documents will/are all be available online for members. This is only a question about selling a USB brain stick whatchamacallit.)

- Would you be likely to purchase it?

Yes	30
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- Comments from attendees of the ASA School 2012 "Living in the Acoustical Environment"
- 1st ASA School happened on Oct 20 and 21. It appears to be a full Success. 40 students and early career attendees. 12 instructors. Feedback is good so far from those who attended. This time, representatives of the fields of EA, NS, AA PP SC and MU each gave 2 presentations. Plan is to run it again in future, keeping the title the same next time, but with 6 different TCs represented.
- Thanks to **Charles Schmid, Elaine Moran, Judy Dubno, Brigitte Shulte-Fortkamp, and Bob Coffeen.**
- – **Brigitte Schulte-Fortkamp** reported the school was well received and successful.

- Attendee comments:

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- *“thank you it was the only way I could have learned about acoustics as it was not a comment subject for learning in my country”*
- Comments on Itinerary Planner Apps (web and phones):
 - Electronic versions – search ability by the day – app was not in chronology by the day – took two tries to long on – scheduling interface to the calendar is nice - it is awesome
- Comments on this meeting:
 - Web access is exceptionally weak
 - Thermal comfort could be better
 - The “over-ear mic” is very good and should be the “standard” for future meetings.
 - Meeting overlap continues to be a challenge
 - Overall great meeting, mega-kudos to Bob and the entire team.

VI. ASA Committee Reports

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

Regarding the Sabine archives at Riverbank Acoustical Laboratory, if TCAA members donated materials to Riverbank, it would be good to know this soon.

TCAA members are certainly welcome to attend Thursday's 7 am ASA Archives and History Meeting if they would like to provide input.

If you or someone you know provided any archive assets to Riverbank, please let your TCAA Chair know (none presented indicated)

2. Education (**Wendy Adams**)

We need one more AA career profile. You sit and are interviewed by Wendy, and she writes it up. Recommendation or volunteer? No volunteers or suggestions came forth.

Things are ready to go, but attendance is much higher than expected (!), so we need additional volunteers (for tomorrow morning!) to demonstrate, using their hands, some hands-on demonstrations. All materials are ready, we just need inspiring presenters 10:00am to noon, Wednesday, 24 Oct 2012 (tomorrow)

Also need additional volunteers (for tomorrow evening!) for the Girl Scouts 5:30 to 7:30. Show up at 4pm

3. Medals and Awards (**Tim Foulkes**)

- The medals and awards committee welcomes any suggestions for candidates for ASA awards such as the Silver medal.
- If you know of someone in TCAA (or anyone in ASA) you think worthy of an award, please let me know and I can explain the procedure.

4. Membership (**Ron Freiheit**)

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- Ron encouraged the nomination of TC members deserving of Fellow status. Details are online, and please see him to discuss.
5. Standards (**Ange Campanella**)
- Ange reported S1.1 is updating ALL of the acoustics-related definitions
 - ASTM E33 started working group E33.05P, chaired by Ron Sauro, to develop a laboratory test that quantifies diffusers (objects that scatter sound). Diffusers scatter sound, modify room character and in places increase the rate of reverberant decay and reduce echoes.
6. Student Council (**Sam Clapp**)
- Sam reported on the weeks activities to date: night orientation, icebreaker and outing, and activities for the rest of the week: Wed night student forum, student reception, student outing to the ASA jam. Students are encouraged to check out the ASA student council on twitter and soon to come facebook. The Council is looking for nominations for the mentors award. A program for Undergrads pre meeting registration (even if not a member) for spring of 2013 many new openings look for email.
 - Michael Vorländer suggested looking for opportunities for reach out to international students for the Montreal meeting
7. JASA and JASA-EL Editor (**Ning Xiang, Lily Wang, Frank Sgard**)
- Ning reported many active members may not be aware of the JASA Express Letters publication process.
 - For regular JASA, 65 manuscripts have been received in the last 12 months. Each manuscript needs 2 to 3 reviewers. Thank many reviewers for their help and looking for more help. Thanks are also due to manuscript authors for submitting their manuscripts to JASA Architectural Acoustics Section.
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**)
- Nancy reported that this morning's meeting the council is making recommendation going to exe-council on for subcommittees on:
 - classroom acoustics
 - public parks
 - wind turbines
10. Women in Acoustics (**Erica Ryherd**)
- Erica reported on girl scout outreach and young investigator award mentoring program, and the women and acoustics lunch reminder

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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 will raffle off and distribute the tickets at its Student Reception on Wednesday evening, 24 October, 6:30 PM, Barney Allis Lobby/Tea Room.
- We need a senior member/Fellow from this committee who is already planning to attend the Luncheon to volunteer to accompany a winning student. It would be great if the volunteer were to also attend the Student Reception Wednesday evening to meet the student (and enjoy the Reception).
- The Society Luncheon and Lecture is Thursday 25 October in the Ballroom B, Noon to 2pm. The senior member will meet the student at 11:45 AM, outside the Ballroom B. 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: David Lubman, Nancy T (NS)
- Thanks for volunteering. Please send a short note of acceptance to Eric Dieckman (Student Council Chair) <eric.dieckman@gmail.com>

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

- None reporting.

VII. TCAA Subcommittee Reports

1. Newman Student Award Fund Update (**Bill Cavanaugh, Carl Rosenberg**)
 - So far this year, the Fund has awarded 17 medals to students from around the world. This is a new record, and the year is not yet over.
2. Concert Hall Research Group Update (**Tim Foulkes, Michelle Vigeant**)
 - CHRG is in the preliminary stages of planning another summer workshop in August 2014
3. Classroom Acoustics Update (**David Lubman, Lou Sutherland, Bob Coffeen**)
 - Publication of two booklets are in final review for teachers, and architects will be in review shortly.

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4. Acoustic Data Working Group (**Ron Sauro**)
 - Ron presented a quick review and purpose of the WG.
 - The question is how/if the WG should move forward
 - Discussion - question to disband (Matt Goldman) the WG
 - Are we willing to support this test?
 - Should we lobby GSA or others to sponsor this work?
 - Motion to continue the WG was made and the motion carried 18 – 16, the WG stands. The Secretary and other members expressed desire to assist in organization of the WG.
5. Joint Subcommittee with Noise on Speech Privacy (**Greg Tocci**)
 - On Wednesday, October 24, at the S12 WG44 meeting, Greg Tocci hopes to have a final draft of a proposed speech privacy standard. All are welcome to attend in addition to WG members. The major challenge has been agreeing upon speech privacy nomenclature that does not create confusion for those needing to adhere to HIPAA/HITECH requirements for confidentiality in handling personal health information.
6. Worship Space Book Subcommittee (**David Bradley, Erica Ryherd, Lauren Ronsse**)
7. TCAA Student Paper Award – Results from Hong Kong (**Ken Good**)
 - Of the 25 student papers included in the judging at Hong Kong the following are the winners:
 - 1st **Jia Luo:** Tsinghua University student design competition – schools
 - 2nd **Ingo Witew:** A model to predict measurement uncertainties due to loudspeaker directivity and its validation
 - All students should note that online submission of their paper at http://scitation.aip.org/jhtml/asaconfsite/signin_user.jsp and at POMA using <http://poma.peerx-press.org/cgi-bin/main.plex> is required for eligibility in Architectural Acoustics Student Paper Awards.
 - For the Kansas City meeting 22 papers have been submitted.
 - Thanks to the many members who served as judges and thoughtfully offered their feedback.
8. Student Design Competition in Montreal (**Bob Coffeen, Phillip Robinson and Dave Woolworth**)
 - Bob reported that we will have a Student Design Competition in Montreal, the competition will be on some kind of performance hall
 - Bob has led this effort valiantly for about 15 years and is looking to pass the torch.
9. Green Building Acoustics (**Ralph Muehleisen, Lucky Tsaih**)

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- There has been no activity in the Green Building Acoustics subcommittee in the past year. Should this subcommittee be dissolved? – No Motions and no action.
10. Subcommittee on building performance research and standards guidance (**Ken Roy**)
- No Report
11. TCAA Website (**Sean Browne**)
- <<http://tcaa.acosoc.org/>>
- Front Page slide show – I would like to use this spot to have a 10 image slideshow of the work that our TCAA membership is involved in. If enough images are submitted I will rotate them monthly. Please submit JPGs that are less than 1MB each with a one sentence caption to me.
 - If you have pertinent information that you want available publically (subcommittee info, standards info, event info, etc.) send me a PDF and I will link it to the appropriate spot.
 - Discuss tab – this has been empty for years, but I know there are many online discussions that are happening in Facebook and LinkedIn groups. I can add links to these forums here if you send me the details.
 - Any other ideas please email Sean Browne – <SDBrowne@armstrong.com>

VIII. New Business

1. Paul Schomer reported that he was asked related an interest in cinema acoustics and looking for experts in building acoustics to assist in contributing. Requesting a formal contact
 - Bruce Olsen will approach Paul to discuss. Russ Berger was appointed to be ASA to SMPTE interface.

VIX. Planning of Future Meetings

1. Montreal, Quebec, Canada (2-7 June 2013)

Program is complete. No action required by this committee.

 - **Michael Stinson**, Chair; **Luc Mongeau**, Technical Program Chair
 - **Eric Reuter**, TPOM rep
 - Joint with **International Congress on Acoustics and Canadian Acoustical Society**
 - Abstracts Due Thursday 15 November 2012

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- Call for papers is published, online.
<http://acousticalociety.org/sites/default/files/docs/Montreal_2013.pdf>
Spread the word to your friends and colleagues. Time is of the essence.
- There are several important points unique to ICA that should be noted. We've followed this procedure before (Seattle):
 1. Proceedings containing papers for each presentation will be published in Proceedings of Meetings on Acoustics (POMA), the ASA's online proceedings journal. A 200-word abstract must be submitted first. 15 November 2012
 2. A manuscript must be submitted for each paper to be presented at the meeting and for publication in the Proceedings. 2 to 8 pages which might be thought of as an extended abstract, or short paper. If a manuscript is not received by 22 January 2013, the abstract will not be scheduled for presentation nor will it be published in the meeting program. **THIS DEADLINE WILL BE STRICTLY ENFORCED.**
 3. Preregistration is required from the corresponding author of each abstract. The preregistration fee must be received by 22 January 2013. Multiple submissions are permitted, but a \$100 publication fee will be charged for each additional paper submitted by the same corresponding author.
 4. Chairs of special sessions, please note the added responsibility to also shepherd proposals to manuscripts, with preregistration payment by 22 January 2013. Papers not satisfying these deadlines will *not* be presented.
 5. Hotel accommodations should be made early. The International F1 Grand Prix event is in Montréal immediately following ICA 2013.
- *Chairs, invite your experts. Experts, submit your abstracts:*
 1. Adapting, enhancing, and fictionalizing room acoustics (**K. Anthony Hoover, Alex U. Case**)
Rooms, systems, and techniques for adapting, enhancing, and fictionalizing acoustic performance through audio and architectural acoustics.
 2. Advanced Analysis of Room Acoustics: Looking Beyond ISO3382 (**Michael Vorländer, Boaz Rafaely, Samuel W. Clapp**)
Advanced techniques of measurement and analysis of sound fields in rooms, including complex sensors such as arrays or intensity probes, and the corresponding signal processing and analysis techniques, as well as aspects of their application for describing room responses and room acoustic quality.
 3. Balancing Risk and Innovation in Acoustical Consulting (**Eric L. Reuter**)

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How consultants determine when to choose innovative new techniques and products over the application of traditional, low-risk solutions.

4. Cultivating the Sustainable in Architectural Acoustics (**Jesse J. Ehnert**)
Exploration of new and novel green methods, means, and materials used to exploit synergies and address conflicts in new and reused buildings.
5. Dah-You Maa: His Contributions and Life in Acoustics (**Ning Xiang, Jing Tian**)
Celebrating Dah-You Maa's life and his over seven decades of contributions to architectural acoustics, noise control, and physical acoustics.
6. Footstep Noise Control for Multi-Family Floors (**Lin Hu, Ciprian Pirvu**)
Identify challenges of and solutions for controlling footstep noise transmission through lightweight floor-ceiling assemblies and heavy concrete floors with various types of tiles.
7. New Materials for Architectural Acoustics (**Matthew V. Golden**)
Review of new materials and new applications of old materials for use in Architectural Acoustics and Noise.
8. Room Acoustics Computer Simulation (**Diemer de Vries, Lauri Savioja**)
Covers all room acoustics simulation methods including wave models, geometrical acoustics, and hybrid techniques with special emphasis on boundary conditions.
9. Senior and Hearing Impaired Room Treatments (**Bonnie Schnitta**)
Correct room acoustics is a critical criterion for maintaining quality of life for rapidly growing aging population. This session is a presentation an discussion of research and case studies of methods and materials that improve speech intelligibility for elderly and hearing impaired in all rooms; i.e.,senior facilities,offices,museums, restaurants.
10. Vibration in Music Performance (**Clemeth L. Abercrombie**)
Mechanical vibration is responsible for both audible and tactile stimulation in music performance. This session will explore the role that vibration plays in musical communication, sound radiation, listener experience, and other topics.
11. Virtual Concert Hall Acoustics (**Sungyoung Kim, Wieslaw Woszczyk**)
In-depth discussion on artistic and technical challenges in virtual recreation and/or active enhancement of a performing space. Topics cover, but are not limited to, psychological effects on performers and audiences, new methods and peripherals, and acoustical archeology.

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- **San Francisco, CA 2-6 December 2013** Final Sessions due *tonight*
 - **James Phillips**, Chair; **Roger Schwenke**, Technical Program Chair
 - **TPOM Representative:** (Still open)
 - **Special sessions for San Francisco**
 - Though not strictly a TCAA event (is was born here!), we seek local organizers for an ASA Jam in San Francisco. Make yourselves known to Tony Hoover (THoover@mchinc.com) (**Tony Hoover**)
 - Special Sessions: No more than 9, please. Complete the San Francisco Special Session Form (Session Title, Descriptive Sentence, Chair(s), Contact Info) and deliver to TCAA Chair tonight.
 1. Acoustics in Coupled-Volume Systems – **Peter Svensson, Ning Xiang**
 - Theoretical, numerical and experimental investigations for performance venues and teleconferencing
 2. Innovations and Challenges in Healthcare Acoustics – **David Sykes, Kenric Van Wyk, Erica Ryherd**
 - Architectural acoustics, noise, and vibration design strategies, and evaluations of occupant response for healthcare settings, including perspectives from the consulting and research communities.
 3. The acoustic parameters of materials: Their definition, measurement and uses in architectural acoustics – **Ron Sauro**
 - This session is to allow descriptions of new terms, redescrptions of old terms, new and updated measurement techniques and new and novel uses of these materials parameters in projects
 4. Separating Spaces: Adventures in Acoustic Isolation – **Stephanie Hoeman, Shane Kanter**
 - Investigations and case studies of isolation of acoustically sensitive spaces.
 5. Restaurant Acoustics – **Eric Reuter, Steve Pettyjohn**
 - Research and case studies relatated to acoustics of restaurants
 6. (Named Session) The enduring contributions of two giants in building acoustics: Ronald L. McKay and Warren E. Blazier – **Dave Conant**
 - A retrospective of the projects and lasting contributions of two BBNers whose mark on architectural acoustics, noise, and vibration cotrol are universally admired and enjoyed by laymen

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7. Experience in Forensic Architectural Acoustics – **Dave Lubman, Matt Golden**
 - There has been much acoustic-related litigation in California, including crime and condominium construction defects (manufacturers, developers, homeowner associations)
8. AIA CEU Course Presenter Qualification – **K. Anthony Hoover, Bennett Brooks, Norman Philipp**
 - Attendance at this class is required for those who wish to qualify as a presenter of the TCAA course on architectural acoustics for 1-hour credit in the American Institute of Architects Continuing Education System. (NO call for papers)

- **Providence, RI 5-9 May 2014**

- **James H. Miller, and Gopu Potty**, Co-Chairs; **James Lynch**, Technical Program Chair
- **TPOM Representative:** We'll need to choose one in Montreal this summer. Dates to be determined.
- Proposed sessions. We need 5 or 6 tonight with:

Title / Name of Organizer / Co-sponsoring Committee:

1. Higher education active classrooms – **Scott Pfeiffer**
2. FGI Updates (2013) – **Gregg Tocci**
3. What about worship spaces - **David T. Bradley**
4. The BIM revolution and the impact – **Norm Philipp**

- Future Meetings, no action required:
 - 168th Meeting, Indianapolis, IN, 27-31 October 2014, **Patricia Davies, Kenneth DeJong**, Co-Chairs; **Robert Port**, Technical Program Chair
 - 169th Meeting, Pittsburg, PA, 18-22 May 2015
 - 170th Meeting, Jacksonville, FL, 2-6 November 2015

IX. Technical Initiatives – 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

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- Student Paper Awards (preapproved) \$1000
- **AIA/CES Provider Renewal \$850**
by Bennett Brooks
 - 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.
 - Motion to provide the monies Vote: motion carried
- **International Symposium on Room Acoustics (ISRA 2013) \$3,500**
by **John Bradley, Michelle Vigeant.**

Description:

ISRA 2013, the next International Symposium on Room Acoustics will be held June 9-11, 2013 in Toronto, Canada (<http://www.ISRA2013.com>). ISRA conferences are held at 3 year intervals as satellite conferences to the International Congress on Acoustics in the same year. The previous ISRA was in Melbourne Australia in 2010 and before that in Seville Spain in 2007.

ISRA 2013 will be a single stream conference with the narrow focus of presentations on the acoustical properties of performance spaces for speech and music. As for previous ISRA conferences, it will attract an international mixture of leading consultants and researchers interested in this topic from a very broad range of countries. Because of its single stream structure, all participants can interact with all speakers and it is an excellent opportunity for students to meet world leaders working in this field.

Funding is requested to help students to participate in this conference. There are two major expenses: making possible a large number of poster presentations, and providing reduced fees for students. Including a large number of poster presentations will require more conference centre space and the costs of displaying posters. The costs associated with the first of these are well over \$2000.

Both John Bradley and John O'Keefe ISRA 2013 conference co-chairs are ASA members. Our International Advisory committee includes a number of ASA members such as Leo Beranek, Lilly Wang and Michelle Vigeant.

Motion to approve : motion carries

- **Theater book promotion \$450 – (approved in past but never used)**
Motion to approve : motion carries
- **TI for funds for materials for testing for the materials working group \$1500**

Discussion subcommittee should present a proposal NCAC all materials must be approved. Motion to pass the motion – Eric has volunteered to be on the subcommittee. Motion to approve the TI Passes 15 to 12

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X. Other New Business

XI. Meeting Adjournment

- Motion to adjourn
- Motion Carries Meeting close 9:59