

AGENDA

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. (7:30) Welcome and Introductions

- Welcome, especially to first time attendees and students.
- Please mark attendance list and verify your contact information
- 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

II. Previous Minutes

III. Acknowledgements

Thanks to:

- **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, Eric Reuter, Ken Roy, Ron Sauro, David Sykes, Lily Wang, David Woolworth, Ning Xiang**
- ASA Jam is Wed Night, 8:00 to midnight, Colonial!
- All 67 paper presenters.

IV. Congratulations!

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

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

- Technical Council Items – TBK
- Comments from attendees of the ASA School 2012
- Comments on this meeting

VI. (7:55 PM) ASA Committee Reports

1. Medals and Awards (**Tim Foulkes**)
2. Membership (**Ron Freiheit**)
3. Standards (**Ange Campanella**)
4. Student Council (**Sam Clapp**)
5. JASA and JASA-EL Editor (**Ning Xiang, Lily Wang, Frank Sgard**)
6. 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.
7. Public Policy (**Ken Roy, Michelle Vigeant**)
8. Women in Acoustics (**Erica Ryherd**)
9. Other (Books+, College of Fellows, Education, Regional Chapters, Tutorials,)

VII. (8:15 PM) 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**)
4. Acoustic Data Working Group (**Ron Sauro**)
5. Joint Subcommittee with Noise on Speech Privacy (**Greg Tocci**)
6. Worship Space Book Subcommittee (**Erica Ryherd, David Bradley, Michelle Vigeant**)

7. TCAA Student Paper Award – Results from Hong Kong (**Ken Good**)

- 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.

Thanks to the many members who served as judges and thoughtfully offered their
feedback.

8. Student Design Competition (**Bob Coffeen, Phillip Robinson and Dave
Woolworth**)

9. Green Building Acoustics (**Ralph Muehleisen, Lucky Tsaih**)

There has been no activity in the Green Building Acoustics subcommittee in the
past year. Should this subcommittee be dissolved?

10. Subcommittee on building performance research and standards guidance (**Ken
Roy**)

11. TCAA Website (**Sean Browne**)

<<http://tcaa.acosoc.org/>>

VIII. (8:45 PM) New Business

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

- **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://acousticalsociety.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:
 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. 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. 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**)
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.

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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
 - **TPOM Representative:** _____
 - 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. ____
 2. ____
 3. ____
 4. ____
 5. ____

- **Providence, RI 5-9 May 2014**
 - **James H. Miller**, and **Gopu Potty**, Co-Chairs
 - **James Lynch**, Technical Program Chair
 - **TPOM Representative:** _____
 - Proposed sessions. We need 5 or 6 tonight with:
Title / Name of Organizer / Co-sponsoring Committee:
 1. ____
 2. ____
 3. ____
 4. ____
 5. ____

- 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. (9:05 PM) 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
- 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.s

- **International Symposium on Room Acoustics (ISRA 2013) \$2,000**
by John Bradley.

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.

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X. (9:25PM) Other New Business

XI. (9:30 PM) Meeting Adjournment