

Minutes

TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

Acoustics 2012 Hong Kong
163rd Meeting of the Acoustical Society of America

Tuesday 15 May 2012

6:00 PM

Hall A

Chair: **Alex Case**

Secretary: **Ken Good**

Opening 6:05

I. Welcome and Introductions

- Please kindly note: This meeting is strictly limited to **1 hour**.
- Welcome, especially to first time attendees, students, and guests from the Acoustical Society of China (ASC), the Western Pacific Acoustics Conference (WESPAC), and the Hong Kong Institute of Acoustics (HKIOA)
- 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 – Motion for approval of the previous minutes by Nancy Timmerman. Motion seconded and approved

III. Acknowledgements

Thanks to:

- **Tom Ho** (General Chair); **Maurice Yeung** (Co-Chair); **KC Lam** (Technical Program Co-Chair).
- ASA co-organizers: **Whit Au** (Co-Chair); **Lisa Zurk** (Technical Program Co-Chair)
- ASA Architectural Acoustics Co-Chair for organizing the technical program is **Ning Xiang**. Thanks Ning!
- TPOM reps: **Bruce Olson** and **Ken Roy** ← They spent 3 days traveling, so that they could spend 2 days working. Thanks*10⁶
- Session Chairs: **Jonathan Botts, Angelo Campanella, Sam Clapp, Jin Yong Jeon, Jerry Li, Jeffrey Mahn, Zihou Meng, Christian Nocke, Boaz Rafaely, Philip Robinson, Ken Roy, Erica Ryherd, Bernard Seeber, Michelle Vigeant, Jiqing Wang, Lily Wang, Ning Xiang, Xiang Yan**

- Student Design Competition: **Philip Robinson**, and **David Woolworth**, with generous support of the Robert Bradford Newman Student Award Fund and the National Council of Acoustical Consultants.
- All 110 paper and poster presenters.

IV. Congratulations!

- Honorary Membership in the Acoustical Society of China: **Leo Beranek**

V. Chair's Report

- Question: *E-First* or *Published Ahead of Print*, in which papers are published electronically before the print edition ships, is currently done for JASA-EL, but not for JASA. Is this feature important to you?
 - YES 10
 - NO 5
 - Abstained 14
- ASA School 2012 – Living in the Acoustic Environment
 - 20-21 October 2012 (the two days before ASA KC, 22-26 Oct 12)
 - Kansas City, MO, USA
 - Graduate students in all areas of acoustics
 - Early career acousticians (within 3 years of terminal degree)
 - Registration: Space is limited to 40 attendees. Attendees are required to be an author on an abstract for presentation at ASA Kansas City
 - Kansas City abstracts due June 5, 2012
 - ASA School 2012 applications due August 1, 2012
 - Registration fee = \$50, includes hotel for two nights (double occupancy), meals, and course materials. Participants are responsible for own travel
 - More at www.AcousticalSociety.org
- Comments on this meeting

Generally acceptable and nice facilities....no specific concerns or kudos

VI. ASA Committee Reports

1. Medals and Awards (**Tim Foulkes**) – **No report**
2. Membership (**Ron Freiheit**) – Nothing to report
3. Standards (**Ange Campanella**) – **SC2, ASTM is meeting in Lancaster in July**

4. Student Council (**Sam Clapp**) – Nothing to report
5. JASA and JASA-EL Editor (**Ning Xiang, Lily Wang, Frank Sgard**) – Thank you to writers and reviewers
6. POMA editor (**Ralph T. Muehleisen**) No Report
7. Public Policy (**Ken Roy, Michelle Vigeant**) Meeting at 8:00am 5/16/2012
8. Women in Acoustics (**Erica Ryherd**) Girl scout outreach in Montreal,
9. Other (Books+, College of Fellows, Education, Regional Chapters, Tutorials,) No Report

VII. (6:30 PM) TCAA Subcommittee Reports

1. Newman Student Award Fund Update (**Bill Cavanaugh, Carl Rosenberg**) Dave Woolworth – nothing to report but encouraging nominations. Michael Erdman granted Schlitz grant
2. Concert Hall Research Group Update (**Tim Foulkes, Michelle Vigeant**) 2014 in Chicago
3. Classroom Acoustics Update (**David Lubman, Lou Sutherland, Bob Coffeen**) Booklet for teachers and faculty expected soon
4. Acoustic Data Working Group (**Ron Sauro**) No Report
5. Joint Subcommittee with Noise on Speech Privacy (**Greg Tocci**) No Report
6. TCAA Student Paper Award – Results from San Diego (**Ken Good**)

Congratulations to:

1st Lauren Ronsse - Impacts of classroom acoustics on elementary student achievement

2nd Ari M. Lesser - Acoustic characteristics of floor treatments for elementary school classrooms

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.

7. Student Design Competition (**Phillip Robinson and Dave Woolworth**)

After review of 20 outstanding entries, from 12 universities, the winners have been decided.

First Honors:

South China University of Technology
Wang Yunyong

Pan Lili
Liu Yiyi
Advisor, Zhao Yuezhe

Commendations: (In no particular order.)

Chalmers University of Technology

Per Bergström
Erik Olsson
Viktoria Henriksson
Advisors, Mendel Kleiner & Morten Mose Lund

Chalmers University of Technology

Maria Hult
Petrus Torstenson
Einar Himmelmann
Advisors, Mendel Kleiner & Morten Mose Lund

Tokyo Institute of Technology, Tokyo/ Shibaura Institute of Technology

Ms. Mizuki Inoue
Mr. Hidehiko Kondo
Ms. Saori Masuda
Advisors, Prof. Yasushi Shimizu, Prof. Yoshiki Nakamura, Prof. Hiroshi Furuya

University of Kansas, School of Architecture, Design and Planning

Grant Price
Advisors, Bob Coffeen

Special thank to our Judging Panel:

Angelo Campanella Campanella Associates
Clemeth Abercrombie Artec Consultants
Zane Au Shen, Milsom, & Wilke. Assoc. Hong Kong
Calvin Chan Shen, Milsom, & Wilke. Assoc. Hong Kong
Tim Gulsrud Kirkegaard & Associates.
Dave Adams DL Adams Associates Inc.

And especially our organizers:

Phil Robinson & Dave Woolworth

8. Worship Space Book Subcommittee (**Erica Ryherd, David Bradley, Michelle Vigeant**) Lauren Ronsse is replacing Michelle on the team
9. Subcommittee on Green Building Acoustics (**Ralph Muehleisen, Lucky Tsaih**) No Report
10. Subcommittee on building performance research and standards guidance (**Ken Roy**) No Report

VIII. (6:40 PM) New Business

- **John O'Keefe** and **David Bradley** are Co-Chairs of ISRA 2013, Toronto, June 9-11, 2013, the next *International Symposium on Room Acoustics*. ISRA

conferences are held at 3 year intervals as satellites to the much larger ICA conferences.

- **(Alex Case)** The Technical Committee on Architectural Acoustics maintains their TC archives at the Riverbank Building (formerly Riverbank Acoustical Laboratories) in Geneva, IL, now part of Alion Science and Technology. This archive consists approximately of the equivalent of 8 vertical file cabinets of documents as well as historical apparatus, some quite large. The archive contains many artifact documents including original papers and notebooks by Wallace Sabine, Paul Sabine, and Ted Schultz as well as the ASA 50th Anniversary materials. The ASA member and contact at Alion Science and Technology left the company that owns/leases the facility housing the archive, and questions have been raised about the safety and accessibility of those archives. After extensive discussions with Alion representatives and during the Archives and History committee meeting, the Archives and History Committee consensus was that we not take any action yet, but monitor the situation closely. In the future it may be possible that the documents from the collection at Riverbank be transferred to the AIP History Center, but this would require funding to move all the materials and get them to the AIP. The AIP History Center will not take historical apparatus currently located at Riverbank, so alternative homes would need to be found for those items.
 - Archives and History committee is keeping a close eye on this, but welcomes questions, comments and concerns. (send to your chair using alex@fermata.biz)
 - I would like to form a temporary sub-committee to ensure effective and efficient communication with Archives and History committee, and to be a strong advocate for the health, preservation, and accessibility of the archives.

VIX. (6:45 PM) Planning of Future Meetings

- **Kansas City, Missouri, USA, October 22-26, 2012** Technical Program Is Complete (no action required by this committee)
 - General Chair: **Bob Coffeen**
 - Technical Program Chair: **Lily Wang**
 - TPOM reps: **Norman Philipp** and **Yun Jing**
 - Call for papers was published *online only* (with supporting post card). Spread the word to your friends and colleagues. Abstracts must be submitted online by Tuesday, 5 June 2012.
 - VERN O. KNUDSEN DISTINGUISHED LECTURE

- **Scott D. Pfeiffer** of Threshold Acoustics LLC will present a distinguished lecture titled “The Consultant’s Risk is an Invitation to Academia”
An exploration of the greatest successes in a design career thus far, and the research-based foundations that made them possible.
- Tour of the new Kauffman Center for the Performing Arts in Kansas City which opens in September of this year and features the work of acoustical consultant Yasuhisa Toyota of Nagata Acoustics
- Jam! Though not strictly a TCAA event (it was born here!), we seek local organizers for the upcoming ASA Jam in Kansas City (and meetings beyond). Make yourselves known to **Tony Hoover** (THoover@mchinc.com).
- Special Sessions ***Session Chairs, please press the *GO* button.***
 - Acoustics and Health (Joint with Noise and ASA Committee on Standards)
 - Organized by: **David M. Sykes, Ning Xiang**
 - Acoustics and health: Noise is a life-safety issue in healthcare where acoustic phenomena like alarm fatigue can be deadly
 - Acoustics in Green Buildings (Joint with Noise)
 - Organized by: **David M. Sykes, Anthony J. Parks, Jr.**
 - Covers emerging topics in noise and health
 - Advancements and Best Practices in Instrumentation for Architectural Acoustics and Noise (Joint with Noise)
 - Organized by: **Matthew Golden, Eric Reuter**
 - Before we are able to analyze, we must first collect data. This session focuses on new advances and current best practices in instrumentation, including hardware, software and data management
 - Alternative Approaches to Room Acoustics Analysis (Joint with Signal Processing in Acoustics)
 - Organized by: **Timothy E. Gulsrud, David S. Woolworth**
 - Methods, equipment, and strategies for room acoustics evaluation that challenge or enhance current standard practice for source and receiver directivity, frequency range, and room conditions

- Computer Modeling in Buildings and the Environment as an Educational Tool (Joint with Education in Acoustics)
 - Organized by: **Norman Philipp, Ron Sauro**
 - Discussion, demonstration, and comparisons of computer modeling software platforms utilized as education tools
 - Coordination of Architectural and Sound System Design in the Built Environment
 - Organized by: **Kenneth P. Roy, Joel A. Lewitz**
 - Sound quality within any architectural space will be dependent on both the inherent architectural acoustics and the sound system design. It is much better to be good than to be lucky
 - Spatial and Binaural Evaluation of Acoustics in Performance Venues (Joint with Psychological and Physiological Acoustics, Engineering Acoustics, and Noise)
 - Organized by: **Ning Xiang, David H. Griesinger**
 - Theory, modeling, and perception in obtaining spatial information for performance venues in terms of binaural receivers and spatial microphone arrays, including, but not limited to, measurement techniques, modeling/analysis methods, and high-spatial resolution scanning techniques
- **Montreal, Quebec, Canada (2-7 June 2013)**
 - **Michael Stinson**, Chair; **Luc Mongeau**, Technical Program Chair
 - Joint with **International Congress on Acoustics** and **Canadian Acoustical Society**
 - Abstracts Due 15 November 2012
 - Proposed sessions are below and, as per past ICAs, will be coordinated with Technical Program contributions from the ICA and CAA. A science advisory panel has been assembled. No action required of this committee today:
 1. Cultivating the Sustainable (**Jesse J. Ehnert**)
 - This session is intended to be an exploration of new and novel green methods, means, and materials used to exploit synergies and address conflicts in new and reused buildings.

2. 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
 3. Balancing Risk and Innovation in Acoustical Consulting (**Eric L. Reuter**)
 4. Integrated Project Delivery (Design Build) (**David W. Kahn**)
 5. New Materials for Architectural Acoustics (**Matthew V. Golden**)
 6. 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 & discussion of research and case studies of methods & materials that improve speech intelligibility for elderly and hearing impaired in all rooms; i.e., senior facilities, offices, museums, restaurants.
 7. 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.
- Future Meetings, no action required:
 - 166th Meeting, San Francisco, California, 2-6 December 2013, **James Phillips**, Chair
 - 167th Meeting, Providence, Rhode Island, 5-9 May 2014, **James H. Miller, Gopu Potty**, Co-Chairs; **James Lynch**, Technical Program Chair
 - 168th Meeting, Indianapolis, IN, 27-34 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. (6:55 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!** He has ported the website to a new server and welcomes your suggestions. Please speak to him after this meeting (or try the email on the interwebbnet) if you have ideas and want to help. (preapproved) \$300 Welcoming interesting photos for of architectural spaces, schools, offices, healthcare, performance halls, worship spaces and more.
- Travel Funds for Invited Speakers (preapproved) \$1500
- Student Paper Awards (preapproved) \$1000

X. (6:58 and 17 seconds PM) Other New Business

XI. (7:00 PM) Meeting Adjournment Motion Ken Roy 6:45