

# AGENDA

## TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

161<sup>st</sup> Meeting of the Acoustical Society of America  
Seattle, Washington, USA

Thursday 26 May 2011

8:00 PM

Willow A

Chair: **Alex Case**

Secretary: **Ken Good**

### I. (8:00 PM) Welcome and Introductions

- Especially to first time attendees and students
- Please mark attendance list and verify your contact information

### II. Previous Minutes

### III. Acknowledgements

Thanks to:

- General Chair: **Thomas J. Matula**
- Technical Program Chair: **Eric I. Thorsos**
- TPOM Representatives: **Ron Sauro**
- Session Chairs: **Alexander C. Bockman, Jonathan Botts, Bennett M. Brooks, William J. Cavanaugh, Peter D'Antonio, David Lubman, Ralph Muehleisen, Eric Reuter, Ken Roy, Gerhard Sessler, Gary Siebein, Jason E. Summers, David M. Sykes, Brandon Tinianov, Michelle C. Vigeant, Michael Vorländer, Ning Xiang, and Michael Yantis**
- All paper presenters.
- Note: Architectural Acoustics contributed 120 papers, plus 2 Knudsen Lectures, plus 2 Panel Discussions, plus 1 Reception, plus 1 Student Design Competition across 18 sessions!

### IV. Congratulations!

- Gold Medal: Eric E. Ungar

### V. (8:10 PM) Chair's Report

- Technical Council Items – TBD
- Comments on this meeting

## **VI. (8:25 PM) ASA Committee Reports**

1. Medals and Awards (**Tim Foulkes**)
2. Membership (**Ron Freiheit**)
3. Standards (**Noral Stewart**, for **Ange Campanella**)
4. Student Council (**Norm Phillip**)
5. JASA and JASA-EL Editor (**Ning Xiang, Lily Wang, Frank Sgard**)
6. POMA editor (**Ralph T. Muehleisen**)
7. Public Policy (**Angelo Campanella**)
8. Other (Books+, Public Policy, Tutorials, WIA)

## **VII. (8:45 PM) TCAA Subcommittee Reports**

1. Newman Student Award Fund Update (**Bill Cavanaugh, Carl Rosenberg**)
2. Concert Hall Research Group Update (**Tim Foulkes, Michelle Vigeant**)
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. TCAA Student Paper Award – Results from Cancun (**Ken Good**)

1st: **Miriam A. Kolar**

2nd: **Ana M. Jaramillo**

All students should note that online submission of their paper at  
<[http://scitation.aip.org/jhtml/asaconfsite/signin\\_user.jsp](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 (**Robert C. Coffeen and Andrew N. Miller**)
8. Subcommittee on Green Building Acoustics (**Ralph Muehleisen**)  
<[asa-gba-request@acousticsweb.com](mailto:asa-gba-request@acousticsweb.com)>
9. Subcommittee on building performance research and standards guidance (**Ken Roy**)
10. PACS# revision Subcommittee (**Ning Xiang, Angelo Campanella, Ralph Muehleisen**)

In the past year, the revision proposal for Architectural Acoustics PCAS# 43.55 has been approached by the TCAA. The proposed revision has been submitted to the Editor-in-Chief. The revision has undergone many iterations, taking into account valuable recommendations by acousticians all over the world. The subcommittee, on behalf of the TCAA, would like to express our high respect and appreciation to many individuals who actively participated in PACS # revision:

Yoichi Ando, Leo Beranek, John Bradley, Bennett Brooks, Trevor Cox, Tim Foulkes, Tim Gulsrud, Carl Hopkins, Jin Young Jeon, Jian Kang, Yiu Lam, Jie Pan, Judicaël Picaut, Philip Robinson, Jason Summers, Hideki Tachibana, Vincent Valeau, Michelle Vigeant, Michael Vorlaender, JiQing Wang (CC Wong)

### **VIII. (9:15 PM) New Business**

- ICC Green Construction Code (**Noral Stewart**)
  - Noral gave a paper on Monday afternoon (1pAAb1 – Efforts to improve the acoustics requirements in the proposed International Green Construction Code.)

### **VIX. (9:20 PM) Planning of Future Meetings**

- San Diego, CA, Oct 31- Nov 4, 2011 Technical Program Is Complete (no action required by this committee)
  - TPOM reps: **Tyrone Hunter** and **Michelle Vigeant**
  - Call for papers is out. Abstracts must be submitted online by Monday, 27 June 2011. Session Chairs, full speed ahead.
  - Jam! Though not strictly a TCAA event (it was born here!), we seek local organizers for the upcoming ASA Jam in San Diego. Make yourselves known to **Tony Hoover** (THoover@mchinc.com).
  - Confirmed special sessions are:
    - Networking In Soundscapes - Establishing A Worldwide Collaboration, joint with Noise, Standards (**Gary Siebein** and **Bennett Brooks**)
    - Active Acoustics – Methods for Effective Coordination (**Roger Schwenke**)
    - Technical Tour: UCSD Music Building (**Roger Schwenke**)
    - Accuracy Of Absorption, Scattering, and Diffusion Coefficients, joint with Noise, Signal Processing (**Peter D'Antonio**)
    - Ear Training Methods For Architectural Acousticians And Consultants (Joint With Education) (**Sebastian Otero**)

- Architectural acoustics and audio - rooms, systems, and techniques for adapting, enhancing, and fictionalizing acoustic traits, joint with Psychological & Physiological (**Tony Hoover** and **Alex Case**)
- Variable Acoustics on Concert Stages, joint with Music (**Michelle Vigeant** and **Bill Dohn**)
- Update on Acoustic Products, Treatments, and Solutions (**Matthew Golden** and **Ken Good**)

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- **Hong Kong, May 13-18, 2012** – Final Sessions Due Tonight, but the program is pretty much complete, as outlined below. This is an international meeting organized in league with multiple organizations, so the planning process is slower and more involved. Speak with **Ning Xiang** after this meeting to discuss possible additions, but as he has been coordinating all session ideas across the globe, things may not change much from here.
  - ASA Architectural Acoustics Co-Chair for organizing the technical program is **Ning Xiang**. Thanks Ning!
  - Joint with WESPAC, ASC, and Hong Kong Institute of Acoustics
  - [www.acoustics2012hk.org](http://www.acoustics2012hk.org)
  - 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)
  - Proposed Sessions
    - Objective and subjective parameters of spatial impression in performing arts spaces, joint with Psychological & Physiological (**Michelle Vigeant** and **Jin Yong Jeon** - WESPAC)
      - Investigations of objective measures and/or subjective studies examining spatial impression, including listener envelopment and apparent source width, in classical music concert venues. Design examples of actual halls that emphasize spatial parameters are also included in this topic.
    - Psychoacoustics in Rooms, joint with Psychological & Physiological (**Philip Robinson** and **Berhard Seeber**)
      - Fundamental research and application of masking, speech transmission, spatial hearing, and auditory scene analysis within the context to room-acoustic environments, including but not limited to: source width, envelopment, distance perception, localization, loudness, noise, reverberance, scene analysis, speech intelligibility, and room synthesis.

- Development and applications of micro-perforated sound absorbers, joint with Signal Processing (**Christian Nocke** and **Jonathan Botts**)
  - Theory and new developments of absorbers based on /derived from microperforation, various applications in different fields such as room acoustics, noise abatement or car noise use micro-perforated structures.
- Multiple-microphone measurements and analysis in room acoustics (**Boaz Rafaely** and **Sam Clapp**)
  - Recent developments in multiple-microphone methods involving microphone arrays and spatial-sampling systems, applied to measurements and retrieval of complex spatial data from sound fields in rooms, including measurement systems, signal processing, and experimental investigations.
- Acoustics in Concert Halls, joint with Noise (**Ning Xiang** (ASA) & **Jiqing Wang** (ASC))
  - Development of new design features and fundamental research in concert halls acoustics. Designs and validations of recently grand-opened venues. (limited to concert halls first, to limit number of invited speakers, if not enough, open to , opera houses, and theaters, multi-purpose halls, indoor and outdoor)
- Classroom Acoustics in Asia, joint with Noise (**Kenneth Roy** (ASA) & **Xiang Yan** (ASC))
  - Acoustic and Noise effects in schools and classrooms. Topics of interest to include architectural design for high performance or ‘green’ rated schools, relationship of acoustics and student perception and performance, field case studies and research studies on noise and acoustics in schools, studies of teacher/student communications and performance.
- Healthcare acoustics, joint with Noise (**Kenneth Roy**, **Erica Ryherd** (ASA), **Sun** (ASC))
  - Acoustic and Noise effects in hospitals and other healthcare facilities. Topics of interest to include evidence based design (EBD) research or case studies on acoustic conditions in hospitals, staff or patient response, and architectural or noise control treatments.
- Multifamily dwelling, joint with Noise (**Angelo Campanella** (ASA))
  - Multifamily housing sound isolation developments and noise control issues.

- **Kansas City, MO, Fall 2012** (tentative: Oct 22-26, 2012; Bob Coffeen, Chair)
  - Proposed sessions (we need 5 or 6 tonight):
    - Title:
    - Name of Organizer:
    - Co-sponsoring Committee:
  
- Future Meetings, no action required:
  - Montreal, Canada, 2-7 June 2013; Joint with Canadian Acoustical Association; Michael Stinson (Chair); Luc Mongeau (Technical Program Chair)

**IX. (9:35 PM) Technical Initiatives – Reports and Renewals**

- Website Upgrade/Maintenance (**New Webmaster Search On-going**) (preapproved) \$300
- Travel Funds for Invited Speakers (preapproved) \$1500
- Student Paper Awards (preapproved) \$1000

**X. (9:55 PM) Other New Business**

**XI. (10:00 PM) Meeting Adjournment**