

## Minutes

### TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

160<sup>th</sup> Meeting of the Acoustical Society of America  
Cancun, Mexico

Tuesday 16 November 2010

7:30 PM

Coral Kingdom 2/3

Chair: **Alex Case**

Secretary: **Ken Good**

#### I. Welcome and Introductions

The meeting was called to order at 7:30pm by Alex Case with 35 attendees signing in, 5 new to the roster, 3 of which were 1<sup>st</sup> time attendees.

#### II. Previous Minutes

The minutes of the previous meeting, held in Baltimore, were approved & distributed.

Motion to accept by Phil Robinson, seconded and the motion was carried.

#### III. Acknowledgements

- Thanks to:
  - General Co-Chair: **James E. West, Samir N. Y. Gerges, and Sergio Beristain**
  - Technical Program Chair: **Mark F. Hamilton**
  - TPOM Representatives: **Philip W. Robinson**
  - Session Chairs: **Sergio Beristain, David Bradley, Ang Campanella, Dave Lubman, Andres Madina, Scott Pfeiffer, Norman Philip, Ken Roy, Erica Ryherd, Ron Sauro, Michelle Vigeant's, Roberto Velasquez, Lily Wang**
  - Hot Topics in Architectural Acoustics presenter: **Erica Ryherd**
  - All paper presenters

#### IV. Congratulations!

New ASA Fellow: **Noral D. Stewart**

#### V. Chair's Report

- Technical Council Items –
  - JASA Conference Program Book is currently mailed ahead of time, available again in hard copy at the conference, and available online. We could push important (e.g. abstract submission) deadlines back, closer to each upcoming conference, if we were to stop mailing out hard copies *in advance* of each conference. Would you support keeping it online, in advance, and providing hard copies at the conference, but mailing hard copies to those who wish (by request and anyone receiving JASA print) for receipt after the conference?

- *Discussion:* A note was made that we would like to see the online version earlier (more than one month before meeting) to assist in travel planning before the meeting.
      - Vote:
        - For (OK to stop advance hard copies): .....22
        - Against ( Please continue Advance copy): .....5
        - Apparent Abstain:.....8
  - Call for Papers is currently made available online and mailed to all members. Would online only be sufficient for you?
    - *Discussion:* Several comments were made that mail is the “trigger /reminder”– would like an email or a post card as a replacement trigger. (post card preferred). It was also asked “Will session planners still get the cfp used for invitation?”
      - Vote:
        - Online and hard copies: .....5
        - Online only: .....22
        - Apparent Abstain:.....8
  - In an online world, the CD-ROM edition of JASA begins to seem anachronistic, even though about 2100 still subscribe.
    - *Poll:*
      - How many receive CD-ROM: .....12
      - How many wish to continue receiving CD-ROM:..... 4
  - Congressional Science and Engineering Fellow needs stronger ASA Participation
    - The American Institute of Physics in cooperation with the Acoustical Society of America (ASA) annually sponsors a scientist to spend a year providing analytical expertise and scientific advice to Congress. In turn, the program enables scientists to broaden their experience through direct involvement with the legislative and policy processes. Fellows gain a perspective that, ideally, will enhance not only their own careers but also the physics community’s ability to more effectively communicate with its representatives in Congress.
    - For information about how to apply, visit [www.aip.org/gov/fellowships/cf.html](http://www.aip.org/gov/fellowships/cf.html)
    - Past Fellows
      - 2009 - Robert A. Fox
      - 2010 - Peter Norgaard

- The AIP State Department Science Fellowship Program
  - Most of the foreign policy issues faced by the U.S. Department of State have a scientific or technical component. This Fellowship is intended to enhance the S&T capacity of the Department by enabling at least one scientist annually to work at the Department's Washington, DC headquarters for a one-year term.
  - Application due: 01 Nov 11
  - <http://www.aip.org/gov/fellowships/sdf.html>
- Our new ASA Education Coordinator is Wendy Adams  
Wendy greeted TCAA, looks forward to serving us and informed us that among the initiatives is an Education website (coming soon)
- Comments on this meeting
  - Thank you again to TPOM planners
  - Architectural sessions next to music acoustics have sound isolation issues
  - Sessions spread out thru the week – (need to stay the week for a session on Monday & Friday with little interest in-between)
  - Wireless internet – poor performance & problematic
  - Papers in some sessions changed times and changed names & topic
  - Language miscommunications – not all presentations in English
  - A lot of no-shows authors/papers

## VI. ASA Committee Reports

### 1. Medals and Awards (new rep **Tim Foulkes**)

- No news – Tim encouraged the TC to submit potential award recipients when warranted

### 2. Membership (**Ron Freiheit**)

- No news – Ron was pleased to announce Noral Stewart latest fellow

### 3. Standards (**George Winzer**)

- No Report

### 4. Student Council (**Norm Philipp**)

- Students continue to have an active connection and organize multiple outings at the meeting
- Twitter feed
- New student nominations

### 5. JASA and JASA-EL Editor (**Ning Xiang**)

- Ning shared that the team is looking for folks to help review submission to JASA
- Suggest add **Lilly Wong** and **Frank Fgard**

- Suggested that if you submit to JASA that you also volunteer to review for JASA (Return the favor)

#### 6. POMA editor (**Ralph T. Muehleisen**)

- Reminder to please submit POMA Papers

#### 7. Other (Books+, Public Policy, Tutorials, WIA)

- **Angelo Campanella** reported that the Panel on Public policy – request the TCAA take the lead on wind turbine noise – Angelo repeated the note facing the other direction because he is directional as a speaking source.

### VII. TCAA Subcommittee Reports

#### 8. Newman Student Award Fund Update (**Bill Cavanaugh, Carl Rosenberg**)

It was reported that there will be a Special session in Seattle – updates and anniversary celebration

#### 9. Concert Hall Research Group Update (**Tim Foulkes**)

Tim Foulkes reported on the Symposium over the summer with 50 in attendance  
The group intends to have future activities but no current & definite plans

#### 10. Classroom Acoustics Update (**David Lubman, Lou Sutherland, Bob Coffeen**)

It was reported that the Booklet will soon be in book form

#### 11. Acoustic Product Safety Group (**Nancy Timmerman**)

Due to lack of activity and realignment of interest **Dave Bradley** moved to remove the committee 2<sup>nd</sup> by **Nancy Timmerman**

*Vote:*

- To Dissolve this subcommittee:.....39
- Opposed to Dissolving the subcommittee: .....0
- Apparent Abstain:.....0

#### 12. Acoustic Data Working Group (**Ron Sauro**)

Little done – focus on lab readiness of laboratory for testing (other note and discussion see TI below)

#### 13. Another Two Decades of Drama Theaters (**David Bradley, Erica Ryherd, Michelle Vigeant**)

The Book has been released @ Cancun and it is stunning!

The TC Congratulates and thanks the editors for their hard work and such a well crafted book

In celebration 2 books were given away as a door prize

With completion of the book –the committee is dissolved

#### Worship Spaces Publication (**Erica Ryherd**)

**Erica Ryherd** is now focusing on the Worship spaces publication – She is soliciting design contributors. The new book will be based in part on the previously held poster session.

14. Joint Subcommittee with Noise on Speech Privacy (**Greg Tocci**)  
No report
15. TCAA Student Paper Award – Results from Baltimore (**Alex Case**)  
1st: **Jeremy Manternach**, Div. of Music Education and Music Therapy, School of Music, Univ. of Kansas  
Acoustical considerations for vocal music rehearsal rooms: A choir director's perspective.

2nd: **Matthew B. Zimmern**, Sound Recording Technology, University of Massachusetts Lowell,  
Soul spaces: How acoustics influence the music production process and the recordings that result.

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 thoughtfully offered their feedback.

16. Student Design Competition (**Bob Coffeen** and **Norm Philipp**)  
2011 Seattle information and scenario are written, under review, and will be posted soon.  
Norm reported that judges will be needed.
17. Subcommittee on Green Building Acoustics (**Ralph Muehleisen**)  
[asa-gba-request@acousticsweb.com](mailto:asa-gba-request@acousticsweb.com)  
Ralph reported that minimal information for update at this time
18. Proposed sub on building performance research and standards guidance (**Ken Roy**)  
Ken reported the desire to continue as proposed with no news to report

## VIII. New Business

- (**Bennett Brooks**) AIA Continuing Education:
  - A new Point of Contact (POC) is desired, the person who coordinates with the AIA and enters the data for the architects, so that they can receive their continuing education credits. Bennett will serve as POC-alternate to train the new POC on the AIA system. It would be a great service to the TCAA, and would be enlightening in the ways of AIA. They also provide free seminars and goodies at the AIA convention for CES course administrators!
  - **Phil Robinson** volunteered to train with Bennett as a new POC (**Ralph Muehleisen** suggested that **Wendy Adams** be involved as to assist)

- **Tony Hoover & Bennett Brooks** are planning AIA CEU training in San Diego
- **(Noral Stewart)** International Codes Council Green Construction Code
  - ICC Producing Green Structure code – ASTM asked to look at reference – the results identified problematic acoustical requirements
  - ASTM needs consensus by thanksgiving (November 25<sup>th</sup> 2010) to submit input
  - How can TCAA or ASA endorse the comments?
  - Discussion: Ralph Muehleisen makes Motion to make Noral Stewart the official Rep of TCAA (pending technical council approval) on this item Ang Campanella 2<sup>nd</sup> the motion.
  - Discussion of motion: it was suggestion/requested that Noral distributes the information draft and position to the TC
  - Vote:
    - To grant Noral Stewart official representation status of the TCAA relative to the ICC Green Construction Code (pending technical council approval)*
    - In favor:.....32
    - Opposed:.....0
    - Apparent Abstain.....3
- **(Alex Case)** Society of Motion Picture and Television Engineers (SMPTE) Standards Committee has formed a Study Group focusing on movie theatre sound system measurement and adjustment techniques and welcomes participation from ASA. Interested parties (particularly anyone who is a member of both ASA and SMPTE) should make themselves known to Alex Case (alex\_case@uml.edu).

## IX. Planning of Future Meetings

- Seattle, WA, May 23-27, 2011 needs a TPOM rep for January 14 & 15, 2011
  - Call for papers is out. Abstracts must be submitted online by 20 December 2010. Session Chairs, start your engines.
  - TPOM Rep (January 14 & 15, 2011 in Seattle): **Ron Sauro**
  - Confirmed special sessions are:
    - Computational methods for auralization in air and underwater (**Jason E. Summers, Michael Vorländer**)  
This session invites presentations on algorithms and techniques for real-time computational simulation of acoustic time-series both in air and underwater
    - Acoustics of Green Buildings (Joint with Noise) (**David M. Sykes, Brandon D. Tinianov, Ralph T. Muehleisen**)

Continuation of the discussion of noise problems in green buildings with special focus on the new acoustics credits and how the LEED Rating System affects consultants

- Acoustics of Healthcare Spaces (**Kenneth P. Roy, Erica E. Ryherd**)  
The acoustics of healthcare facilities are important relative to health and healing aspects, speech intelligibility for error avoidance, and speech privacy for the protection of confidential information
- Developments in Plumbing Noise Control (Joint with Noise) (**David L. Adams**)  
Plumbing noise is a serious problem in many multi-family projects
- Memorial Session for Manfred R. Schroeder (Joint with Signal Processing in Acoustics, Engineering Acoustics, Musical Acoustics and Speech Communication) (**Ning Xiang, Gerhard M. Sessler**)  
Schroeder's contributions to many fields of acoustics
- Quantitative and Qualitative Effects of Diffusion in Rooms (**Jonathan Botts, Peter D'Antonio**)  
Topics encompass quantitative, measurable, and subjective effects of diffusive and scattering surfaces and forms of rooms
- Soundscape: Standardization and Implementation (Joint with Noise and ASA Committee on Acoustics) (**Bennett M. Brooks, Gary W. Siebein**)  
Latest developments in soundscape analysis, standardization, and methodology
- Speech Privacy (Joint with Noise) (**Eric L. Reuter**)  
Latest developments in speech privacy research, standards, and legislation
- Towards a Benchmark in Computational Room Acoustics (**Alexander C. Bockman, Jason E. Summers**)  
A number of competing methods exist for the prediction of acoustic parameters that describe the performance of a space. This session moves to define a set of benchmarks against which the methods may be tested for accuracy and efficiency.
- 25th Anniversary of Newman Fund Awards - Recipient and Participating School Updates (**Michelle C. Vigeant, William J. Cavanaugh**)  
A celebration for the 25th anniversary of the Newman Fund Awards, to both honor past recipients and acknowledge participating university programs
- **San Diego, CA Oct 31-Nov 4, 2011** Final Sessions due tonight
  - (**Tony Hoover**) Though not strictly a TCAA event (is/was born here!), we seek local organizers for an ASA Jam in San Diego. Make yourselves known to **Tony Hoover (THoover@mchinc.com)**
  - Special Sessions

- *Networking In Soundscapes - Establishing A Worldwide Collaboration* (**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* (**Peter D'Antonio**)
  - *Knudsen Lecture* - (**David Lubman**) – There will be two, without objection. None noted.
  - *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 (**Tony Hoover** and **Alex Case**)
  - *Variable Acoustics on Concert Stages* - **Bill Dohn** & **Michelle Vigeant**
  - *An update on acoustic products, treatments and solutions* - Matthew Golden & Kenneth Good.
- **Hong Kong May 14-18, 2012**
    - Joint with WESPAC, ASC, and Hong Kong Institute of Acoustics
    - [www.acoustics2012hk.org](http://www.acoustics2012hk.org)
    - Our hosts: **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!
    - Proposed sessions:
      - Acoustics of Green Buildings - **Ken Roy**
      - Healthcare Acoustics (joint w/ noise) - **Ken Roy** & **Erica Ryherd**
      - Room Effects and Psychoacoustics - **Phil Robinson**
      - Classroom Acoustics in Asia **Ken Roy**
      - Multi-Family housing (joint w/ noise) - **Angelo Campanella**
      - Micro perforation , Theory and Application - chair not identified
      - Perception of spatial impression, Envelopment, ASW – **Michelle Vigeant**
  - **Future Meetings, no action required:**
    - Kansas City, Missouri, Fall 2012; **Bob Coffeen** reports (brags, actually) that their new Kauffman Center for the Performing Arts (1600 seat Concert Hall and 1800 seat Proscenium Theatre; Nagata Acoustics) will have opened. He anticipates



tours and a special session on halls and theatres for opera, ballet, and Broadway-type shows.

- Montreal, Canada, 2-7 June 2013; Joint with Canadian Acoustical Association;  
**Michael Stinson** (Chair); **Luc Mongeau** (Technical Program Chair)

#### IX. (9:05 PM) Technical Initiatives – Reports and Renewals

- Website Upgrade/Maintenance (**Conor Sheehan**) (preapproved) \$300

It should be noted that multiple attempts to contact Conor Sheehan have been unsuccessful and so the web site sits with stale information. Anyone knowing how to contact Conor please encourage him to contact me. We otherwise are looking for a new web master for TCAA.

- Travel Funds for Invited Speakers (preapproved) \$1500
- Student Paper Awards (preapproved) \$1000
  - AIA Continuing Education System (**Bennett Brooks**) \$800
    - Motion to continue by **Nancy Timmerman** 2<sup>nd</sup> by Bruce Olson
 

Vote	
▪ Approve Continuing .....	30
▪ Disapprove .....	0
▪ Apparent Abstain .....	5
  - Motion by **Ron Sauro** to renew the TI for measurements and standardizes materials \$1500
    - Discussion:
    - A concern was raised with the accuracy of current measurement methods and wishes to wait for new methods
    - A concern was raised related to the materials priority selection

Vote on the TI	
- In favor .....	17
- Apposed .....	3
- Apparent Abstain .....	15
- The Chair has directed Ron to create and circulate a list of material to be tested

#### X. Other New Business

- **Ron Sauro** is proposing a complete re-examination of the acoustics lexicon and terminology to better align with the other physics terminology
- S11 is under revision - this may be the venue for such
- **David Lubman** asked how can we be more actively involved with standards related to measurement and terminology
- **David Lubman** also pointed out recent attention relating to archeological acoustics is on the rise and further sessions are encouraged
- **Phil Robinson** asked for the chair to investigate additional monies for students to come to Hong Kong

**XI. Meeting Adjournment**

- Motion to adjourn
- Meeting adjured 9:17pm

Respectfully Submitted:  
Kenneth W Good Jr  
Secretary TCAA