

MINUTES
(revised 1 June 09)

TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

157th Meeting of the Acoustical Society of America

19 May 2009

7:30 PM

Portland, OR

Chair: **Brandon Tinianov**

Secretary: **Alex Case**

I. Welcome and Introductions

The meeting was called to order by Brandon Tinianov at 7:33 with 97 attendees signing-in. 33 of these are first time attendees.

II. Previous Minutes

The minutes of the previous meeting, held in Paris, were approved as revised and distributed.

MOTION to accept – (by Ralph Muehleisen, Second by Nancy Timmerman)

FOR – unanimous

AGAINST – none

MOTION CARRIES

III. Acknowledgements

Sincere thanks to:

- General Chair: **Lisa M. Zurk**
- Technical Program Chair: **Marjorie R. Leek**
- TPOM Representatives: **David Bradley**
- Session Chairs: **David H. Griesinger, David M. Sykes, Brandon Tinianov, Ning Xiang, Boaz Rafaely, Bob Coffeen, David Bradley, Ron Sauro, Tony Hoover, Steven D. Pettyjohn, Ken Roy, Lily Wang, and Russell N. Altermatt.**
- All paper presenters

IV. Congratulations!

New ASA Fellows: **Russell E. Berger and Trevor R. T. Nightingale**

V. Chair's Report

- Technical Council Items –
 - Regarding the venue for Portland, it was noted that the AV has been spectacular (Brandon Tinianov), the location was great - easy to get to,

near local points of interest without being trapped in a ‘campus,’ and the hotel resources have been easy to work with.

- TC asks: This convention is the week prior to Memorial day. Is this a problem or a benefit?
 - Consensus is that it is a good, early date. No earlier please, to avoid conflict with academic calendars. Proximity to Memorial Day is a non-issue.
- Our Editor in Chief wants all TCAA members to note that the page charges for JASA are a critical form of support for ASA, below market rates.
- The Editor in Chief wishes to assess the reasons why so many excellent papers are presented, yet so few are ultimately published.
 - Number of those now present who are presenting at this conference: 45
 - Number who intend to publish in some form: 30
 - Among those publishing,
 - number in JASA: 18
 - POMA: 17
 - or other: 9
- The Published Scope for the Technical Committee needs a review and update. In addition to the desire to keep the content current, it is also noted that the refined scope will be used, in part, by the Editor in Chief to sort papers to the appropriate experts. Note that overlap among the various TCs is certainly allowed and may be strategically beneficial. Such overlap should be coordinated with the relevant other Technical Committees. Brandon wishes to appoint a subcommittee for this task and seeks volunteers:
 - Ning Xiang, Tony Hoover, Jodi Jacobs agree to serve.
 - Current Scope Reads:

Encompasses the following areas of interest as applied to spaces in and around buildings:

 1. Room Acoustics
 2. Airborne and impact transmission in building structures
 3. Airborne and structure-borne noise control
 4. Noise control of building systems
 5. Electroacoustics systems
 6. Psychophysics and psychoacoustics
- Updated information on Tutorials and Short Courses (**Lily Wang**)
 - Definitions
 - Short Course
 - 8-hour course on acoustics-related topic

- Typically 4 hours, Sunday afternoon before the conference, and 4 hours Monday morning of the conference.
- \$200 pre-registration fee
- Tutorial
 - 2-hour introduction to an acoustics-related topic.
 - Typically Monday evening from 7-9pm.
 - \$15 pre-registration fee (\$7 for students)
- Upcoming, in San Antonio
 - Short Course on “Acoustics Imaging Applications: Seismic, Underwater, Biomedical, and Speech,” by Dr. Max Deffenbaugh, Dr. Jules Jaffe, Dr. Christy Holland, and Dr. Maureen Stone.
 - Tutorial Lecture on “Podcasting Demystified: From Concept to Production for Every Budget,” by Dr. Kathleen King.
- The College of Fellows student initiative has motivated the attendance in Portland of Elizabeth Lamour from Berklee College of Music.
- Comments on this meeting

VI. (7:55 PM) ASA Committee Reports

1. Medals and Awards (**Dana Houglund**) - nothing to report.
2. Membership (**Ron Freiheit**)
 - As a reminder to all TCAA members, fellows and non-fellows, please consider putting forward colleagues that are deserving of this recognition. If there are questions about the process, please contact Ron Freiheit.
3. Standards (**George Winzer**)
 - A reminder: ASA members get 5 free standards/year. You'll receive an email each calendar year with the electronic coupon and instructions.
4. Student Council (**Lauren Ronsse**)
 - Lauren Ronsse was elected Chair of the Student Council, causing the room to erupt in wild, enthusiastic applause. As a result of Lauren's achievement, TCAA needs a new student representative to serve a two-year term. Applications will go out shortly, speak with Lauren if interested. Intent is to have nominations in place and a student elected in time for San Antonio.
 - Student reception is Wed night. As is true for all such events, all ASA members are invited (not just students). There will be a raffle for one ticket to Fellows Luncheon.

- Grant writing workshop on Thur.
 - The Student Council is calling form nominations for their Mentor Award. The Mentoring Award application is available at the Student Council website: <http://www.acosoc.org/student/mentor/mentor.html>
 - Submissions will be due sometime before the Baltimore meeting. .
5. JASA and JASA-EL Editor (**Ning Xiang**)
- By the end of the year, he (and Lily!) will have reviewed some 40 manuscripts.
 - TCAA is one of the largest TCs with a strong influence on ASA, yet we are under representative in the journals.
6. POMA editor (**Ralph T. Muehleisen**)
- POMA is the Proceedings of Meetings on Acoustics.
 - He has received only 4 since last meeting, and just 7 for the year.
 - Take your presentation and add prose with computer graphics. It may be made more complete (white paper) if you like. Only caveat: avoid commercialism. You may not just plug your product.
 - Note: POMA Is now part of Google Scholar.
 - Deadline: 1 year from presentation date to submit.
 - For non-text media such as animations and videos, the plan is to put it on YouTube, with link in your POMA publication.
 - Chairs of all sessions at ASA meetings should encourage their presenters to publish in POMA. Include it in your advance communications with presenters, remind them at the session itself, and then include a POMA reminder in any follow-up/thank you communications.
 - MOTION: All winners of Student Paper Competition should submit their papers to POMA before receiving award check. (by Ralph Muhleisen, second Steve Pettyjohn):
 - YES = alot
 - NO = 2
 - ABSTAIN = 5
 - MOTION CARRIES
7. People interested in TAKING A STUDENT TO LUNCH should make themselves known to Ralph Muehleisen.
8. Other (Books+, Public Policy, Tutorials, WIA): none

VII. TCAA Subcommittee Reports

1. Newman Student Award Fund Update (**Lily Wang**)

The Newman Foundation was founded almost 25 years ago!

Awards come in three forms:

- a. The Newman Award goes directly to worthy students. Awarded 5 last year. Educators should nominate worthy students. See newmanfund.org for more information.
- b. Shultz Grant to improve educational tools is a \$3k award. Entries are due at the end of June.
- c. Student Design Competition (see below)

2. Concert Hall Research Group Update (**Bill Dohn**)

- a. Met last night to revive interest in running another Institute. The goal is now summer 2010, in a West Coast location (specifics to be determined). The plan is to link more directly with ASA HQ to help administer this significant event.

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

Lou Sutherland – We are working on two new booklets, one for educators, the other for architects. A first draft for educators has been written - by an educator. Also has a draft for the architect version. If you wish to view, please see Lou Sutherland. David Woolworth has also created an excellent draft which will be integrated with these. The current plan is to create a two-part booklet for the architect (conceptual, and nuts and bolts). No Technical Initiative funds have yet been spent on this project (ie, all past TIs approved by this committee for these booklets went unspent and the funds remained with the ASA).

David Lubman – Has exciting classroom acoustics news. On May 14, 2009, in Washington DC, the house approved legislation to modernize and green schools. Peggy Nelson and Ken Roy presented! The ANSI standard was specifically mentioned during this presentation. There has been some pushback by the Green Bldg Council on acoustics.

Provisions allowing school districts to address classroom noise and acoustics in their school buildings remained intact in H.R.2187, the 21st Century Green High-Performing Public School Facilities Act, as the U.S. House of Representatives considered fourteen amendments and approved the bill 275-155.

H.R. 2187 would authorize \$6.4 billion for school renovation and modernization projects for fiscal year 2010 and would ensure that school districts quickly receive funds for projects that improve schools' teaching

and learning climates, health and safety, and energy efficiency. The bill now goes to the Senate for further consideration.

The bill includes the following text:

The Committee encourages school districts that undertake projects to reduce or eliminate human exposure to classroom noise and environmental noise pollution, and the Secretary, in providing technical assistance concerning reducing background noise and reverberation in classrooms, to consider the American National Standards Institute (ANSI) approved Standard S12.60–2002, [Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools].

H.R.2187 has been officially referred to the Senate and subsequently referred to the Health, Education, Labor, and Pensions (HELP) Committee for further consideration.

Some of you are from states with senators who serve on the HELP Committee (<http://help.senate.gov/About.html>), we will need some champions there.

Ken Roy – Points out that the bill is on *how* the money will be spent for stimulating economy, and that we can use that money on room treatments.

4. Acoustic Product Safety Group (**Nancy Timmerman**)

There have been two conference special sessions related to the Acoustic Product Safety Group since the committee was formed, but the committee has not met in some time.

5. Acoustic Data Working Group (**Ken Roy**)

No activity since last meeting and none likely. Ron Sauro will be taking over.

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

a. **David Bradley** reports that BOOKS + unanimously approved the funding for a 4th book. Pending approval from Executive Council, we are looking to expand beyond the poster session to include all relevant work through 2010. We'll send request for submissions.

b. Tentative Publication date is Nov 1, 2010.

7. Joint Subcommittee with Noise on Speech Privacy (**Greg Tocci**)

a. **KEN ROY** reports that this subcommittee is meeting at this convention on Wed. Interested parties should contact Ken Roy.

8. TCAA Student Paper Award – Results from Miami (**Alex Case**)

Congratulations to first place co-recipients Robert M. Tanen & Jonathan C. Silver of the University of Hartford and second place recipient Linda Gedemer of Rensselaer Polytechnic Institute. They earned the highest praise from our judges! Thanks to the many members who thoughtfully

offered their feedback. Major thanks also to the Award's sponsor, The Newman Fund.

9. Student Design Competition (**Bob Coffeen**)

Byron Harrison - First, let me congratulate the entire group on a tremendous effort on the design competition entries. Throughout the poster session, the organizers and the judges received numerous comments regarding the outstanding quality of the submissions. Each year, the acoustic design and presentation improves. Thanks to each of you for doing your best and for making the competition look good in the eyes of the ASA and the general membership.

If any of you has the opportunity to thank the members or organizers of the TCAA, Newman Student Award Fund, Wenger Foundation, or NCAC, please do so. Without their support and commitment to the competition as an educational tool and a way to honor and encourage a high level of design at the collegiate level, this competition would not be possible.

Without further ado, the awards:

First Honors:

Karl Eriksson, Rikard Olsson, Victor Gunnarsson - Chalmers University of Technology

Commendations, in no particular order:

Shane Kanter, Jon Birney, John Hodgson - University of Kansas
Alic Vedad, Hanna Mangs, Daniel Johansson - Chalmers University of Technology

Anna Sandberg, Caroline Werner, Elis Johansson - Chalmers University of Technology

Sebastian Fors, Lisa Kinnerrud, Fredrik Hagman - Chalmers University of Technology

Our heartiest congratulations to all award winners!

Lastly, would each of the winning teams please check the spelling of the names listed above (for the use in press releases) and provide a single address and name for the receipt of your award. One award check will be cut for each team.

10. Subcommittee on Green Building Acoustics (**Ralph Muehleisen**)

Little formal activity. Share your concerns and comments about green buildings and acoustics with Ralph so that this subcommittee can work for you. Convert informal sense of things into action. To join mailing list, send a message to asa-gba-request@acousticsweb.com

11. Proposed subcommittee on building performance research and standards guidance (**Ken Roy**)
Nothing to report.

VIII. New Business

1. Multifamily Acoustic Booklet Technical Initiative (**Brandon Tinianov**).
 - Members of TCAA have demonstrated a wealth of good design practices, and there is desire to spin off this knowledge into standards.
 - There is a booklet underdevelopment, should be in publication for San Antonio meeting (100 drawings, plus good text).
2. International Code Council guideline for acoustical performance (**Brandon Tinianov**). Brandon reported that there is a third party (external to ASA) initiative to draft a set of acoustical guideline for improved sound isolation into the International Code Council (ICC) building codes. The guideline will cover elements of performance, design, testing as an improvement to existing code. The format will be similar to the ASA classroom acoustics booklet. After reviewing the initiative with many TC members, the TC chair drafted a letter of support to the ICC. Working group members will include members from ASA, NCAC, and ASTM.
3. **Brad Gover** reports that Inter-Noise 2009 will be in Ottawa, Canada, 23-26 August 2009. There will be numerous special sessions related to building and room acoustics occurring every day of the conference. Sessions being planned for IN09 include: Need for Criteria Schools, Noise in Healthcare Facilities, Speech Privacy, Assessment of Floor Impact Sounds, Lab and Field Testing, Public space acoustics, Green/Sustainable Quiet Building Design. More information at: www.internoise2009.com

IX. Planning of Future Meetings

- Fall 2009 meeting, San Antonio, TX (October 26-30)
 - Technical Program Organizing Meeting (TPOM) is July 10 and 11. The TCAA representatives are **Doug Winker** and **Dave Woolworth**. Note that while only a single TPOM representative is needed, experienced TPOM representatives should accompany new representatives to ensure good knowledge transfer.
 - **Scott Pfeiffer** – Acoustics & Theatre Consulting: A Special Relationship
 - **Dave Woolworth** – Architectural acoustics program serving consultants and professionals
 - **Doug Winker** – Acoustic Test Facilities: Design Qualification And Testing
 - **Doug Winker** – Tour Of ETS-Lindgren Lab In Austin (1 Hour Drive Each Way)

- **Ian Hoffman** – Biggest Mistakes: Lessons For Practioners, Researchers, And Young Designers (Alternative Title: “What Happens In San Antonio Stays In San Antonio, Except For The Whole POMA Thing”)
 - **Molly Norris** – Space For Experimental Media And Spatial Sound Reproduction
 - **Kenneth Good** and **Pam Harght** – Classroom Acoustics: New Design Approaches, Successes And Failures
 - **Ron Sauro** – Absorption, Scattering And Diffusion: Myths, Facts, And Misconceptions
 - **Lou Sutherland, David Lubman, and Kenneth Good** – Classroom Acoustics, An Update. note: A Review committee needs 1 to 3 volunteers for this session.
- Spring 2010 meeting, Baltimore, MD (April 19-23)
 - TPOM representative is to be **Kenneth Good**
 - **Norman Philipp** – Case Studies ,Applications and Integration of Architectural Acoustics in BIM 3-D Modeling
 - **Peter D’Antonio** – Accuracy of Absorption, Scattering, and Diffusion Coefficients,
 - **Peter D’Antonio** – RPG Tour
 - **Bob Coffeen** – Primary And Secondary School Special Function Spaces (Auditoria, others?)
 - **Tony Hoover** and **Alex Case** – Sound Reproduction in Rooms
 - Gary Siebein suggests that this topic would be ideal for a Poster Session, with an eye toward a future book.
 - **Eric Reuter** – Speech Privacy and Intelligibility
 - **James B. Lee** – Physical Acoustics in Boston Symphony Hall – A Guide for the Perplexed
 - **Andy Miller** and **Shane Kanter** – Diamonds in the Rough, or Hidden Gems Spaces that possess outstanding acoustical attributes, however are not necessarily known in the popular acoustical press
 - **David Syckes** and **Brandon Tinionov** - Green Buildings
 - Fall 2010 CANCUN tentative ideas are offered:
 - **David Bradley** - Theaters for Drama Performance
 - **Lily Wang** – Perception of Binaraul Acoustics
 - **Ron Sauro** – State of the art in measurement methods and facilities

- **David Lubman** – Archeological Acoustics
- **Charles Schmid** encourages us to contact colleagues in South America and invite papers and seek out co-chairs.

X. Technical Initiatives – Reports and Renewals

- Website Maintenance (preapproved) \$300
To update and maintain the TCAA site, Connor Sheehan, a recent RPI graduate has volunteered. It is noted also that the site must maintain current and archived meeting minutes, agenda, etc.
- Travel Funds for Invited Speakers (preapproved) \$1500
- Student Paper Awards (preapproved) \$1000
- Knudsen Lecture (**Chair**, \$1000 for 2009)
- **Lou Sutherland** requests \$3k to fund preparation of the documents for Classroom Acoustics booklets for Architects and Educators. He will ask for same amount from TC Noise.

YES = 85

NO = 0

Abstain = 12

MOTION CARRIES

Ron Sauro requests \$2k to purchase generic materials for testing for the Acoustic Data Working Group. TI is not to pay for testing, just materials. **Lily Wang** raises concern that we already have lots of data for generic materials and we ending. **Ron Sauro** points out that data is old, and methods aren't well known. **Bob Coffeen** offers support of gathering new data.

MOTION: Technical Committee asks that the subcommittee meet to discuss how information will shared and documented (by Ron Sauro, Bob Coffeen)

Lily Wang offers friendly ammendment that there be a proposal describing the exact materials to be tested prior to next vote on this Technical Initiative.

YES = 34

No = 17

MOTION CARRIES

Regarding past TIs for the Acoustics Jam Sessions, **Tony Hoover** offers:

- Committee should be proud of hosting the first JAMS.
- There is an opportunity for this to be one of the more involved events. It represents a social and outreach activity, the *Society* side of the Acoustical Society.
- Would like to see another jam session in the future, and that it become a regular event, at some pace (once per year, twice per year, etc.).

MOTION: \$1500 TI for a Jam Session in San Antonio - it would be the third (by **Tony Hoover**)

Lily voices that this idea is awesome, but we should find other funds to support it as it lacks technical merit to justify a Technical Initiative.

YES = 37

NO = 12

MOTION CARRIES

Brandon will also offer the idea of the Jam to Technical Council for their consideration, to review the merit of the idea and to consider other funding sources.

XI. Other New Business

Nancy Timmerman attended the AIA Continuing Education training event but hasn't received the materials. **Ken Good** points out that he has had no problems contacting Bennett or getting the materials. **Russ Berger** (sporting his new Fellow Sombrero) also has had no problems contacting Bennett to get materials for presentation. All should see **Bennett Brooks** (who left to tune his bass for the Jam) if you have this problem. **Charles Schmid** would like to see a white paper on the evolution and delivery of this content, possibly for Acoustics Today.

XII. Meeting Adjournment

In an act of pure rebellion, **Tony Hoover** moves that the meeting be adjourned. It was seconded by everyone except **Brandon Tinianov**, who *really* loves long meetings.

The meeting was adjourned at 9:21.