

# MINUTES

## TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

145th Meeting of the Acoustical Society of America

29 April, 2003

7:30PM

Nashville, TN

Chair: **K. Anthony Hoover**

Secretary: **Lily Wang**

### INTRODUCTIONS AND ACKNOWLEDGEMENTS

Thanks to:

- General Chair: **D. Wesley Grantham**
- Technical Program Chair: **Ralph Ohde**
- Paper Sorters: **Martha Larson & Lily Wang**
- All Session Chairs: **William Cavanaugh, Steve Haas, Robert Coffeen, Jeff Szymanski, Alex Case, K. Anthony Hoover, Rendell Torres, Martha Larson, Lily Wang and Robin Glosemeyer**
- All paper presenters

### WELCOME

- Students and first time attendees
- New Chair of Technical Committee on Noise: **Mike Stinson**

### REPORT ON 75<sup>th</sup> ANNIVERSARY MEETING (Leo Beranek and Pat Kuhl)

- The 75<sup>th</sup> Anniversary Meeting is scheduled for May 24-28, 2004. The meeting hotel is the Sheraton, with a room rate of \$190/night.
- The meeting focuses on both reflection and celebration. Wednesday is being set aside as a celebration day. Wednesday's schedule includes: a short business meeting at 8:30 AM, and a morning celebration session at 9:30 AM, chaired by **Pat Kuhl**. The latter session will include the mayor of NY, special speakers, and a 60 minute demonstration on a virtual orchestra in City Center (not a concert for political and union reasons). There will be no additional charge for this event, but attendees do need a meeting badge.
- Wednesday evening will be a celebratory banquet. **Larry Crum** and **Anthony Atchley** will act as emcees. A \$40 charge is currently being recommended for banquet. There will be some commentary and some entertainment (Julliard string quartet). Meanwhile, a recording of the 25<sup>th</sup> Anniversary banquet will be played in two nearby rooms.
- The technical committee was asked to vote on whether or not there should be any technical paper sessions on Wednesday afternoon. TCAA voted unanimously that there should not be any papers on Wednesday.

## CONGRATULATIONS!

- New Fellows: **Ronald McKay, Floyd Toole, Brigitte Schulte-Fortkamp, David Walsh**

## PREVIOUS MINUTES

- **Neil Shaw** made a motion to approve previous minutes of Cancun TCAA meeting. **Rendell Torres** seconded. Motion was approved unanimously.

## OLD BUSINESS

### 1) Classroom Acoustics

- Air-conditioning and Refrigeration Institute (ARI) lost their appeal; ANSI has upheld the standard S12.60-2002.
- Everyone is encouraged to attend Session 3pNS on Wed. at 1 PM (Room 102): ASA's Role in Developing a Policy Statement and Outreach for the ANSI Classroom Acoustics Standard
- **Bob Coffeen** and **Red Wetherill** are chairing a task force on Outreach for Classroom Acoustics. **Les Blomberg** reported that he spent and has been reimbursed \$1000 for a mailing regarding appeal on Classroom Acoustics standard.

### 2) TCAA Web Page Update (**Les Blomberg**) – no report

### 3) Student Council Update (**David T. Bradley**)

- The Student Council Committee will soon be officially included in the ASA Rules and Governance.
- The council is also working on (1) student mentoring award, which is currently being reviewed by the Prizes and Special Fellowships Committee; (2) a career workshop for Austin meeting; (3) starting student chapters – **Erica Bowden** has been working with the Regional Chapters Committee and written a chapter charter; and (4) getting information on website and email sent to students prior to ASA meetings about alternative housing and student activities.
- All are encouraged to attend the student reception on Thursday at 5:30 PM.

### 4) Concert Hall Research Group Update (**Tim Foulkes**)

- There has been some progress on the CHRG data compilation CD, including new graphics and a new navigation system. They will be sending out copies of the latest disk to key participants. After one more round of modifications, they plan to send it out.

### 5) 2<sup>nd</sup> Concert Hall Acoustics Summer Institute (**Chris Jaffe, Robin Glosemeyer**)

- This event is planned for August 11-14, 2003 in Saratoga Springs, NY. Its focus is on the application of research and knowledge to create successful concert and multi-use hall designs.
- Formal invitations have been sent to NCAC members and advertised to ASA membership.

- Applications are due on May 15, 2003. Fellowships are available for students who wish to attend (not professional students, but University students).
- 6) Subcommittee on University / Consultant Partnerships for Research (**Paul Calamia**)
- **Scott Pfeiffer** originally generated this idea where consultants and university researchers could develop relationships and work on research appropriate to the consulting industry. Professionals can supply problems and ideas to some forum (probably web-based). Contact **Paul Calamia** for further discussion and information ([calamia@cs.princeton.edu](mailto:calamia@cs.princeton.edu)).
- 7) Halls for Music Performance Book Update (**Tim Foulkes, Chris Storch, Ian Hoffman**)
- This book is a compendium of posters presented at the Chicago and Pittsburgh ASA meetings. The book includes 134 posters and is to be published in color, within budget and on schedule (ready by the Austin ASA meeting). Firms that participated were very generous, which helped to lower ASA's risk. If you are a participant, you will soon be receiving communication by the publisher, University of Toronto Press.
- 8) Update on request to ASA Books Committee to reprint Cremer, Mueller, and Schultz texts (**Damian Doria**)
- Action has been taken on this, and the Books Committee will get necessary paperwork on Thursday.
- 9) 2003 Student Design Competition Results (**Bob Coffeen, Robin Glosemeyer, Lily Wang**)
- This year's competition included 16 posters representing 9 schools. Winners were announced. Judges were recognized and thanked: **Russ Berger, Dave Conant, Brian Kubicki, Ed Logsdon, Robert Traub, and Red Wetherill**. The subcommittee has discussed sending a copy of Sabine's Collected Papers to each participant.
  - **Red Wetherill** stated that the posters should be displayed more prominently, and others agreed, but there are often space limitations.
  - **Jack Randorff** and **Russ Berger** intend to ask for more financial support from NCAC.
  - **Bob Coffeen** encouraged donors to provide travel funds for students from nearby universities to attend the ASA meetings. **Steven Brown** noted that on the annual ASA dues invoice, you can give a specific donation that is set aside for the ASA student travel fund.
- 10) Newman Student Award Fund Update (**Lily Wang**)
- Copies of the 2002 Newman Fund Newsletter were distributed. Also mentioned were the fund's new website at [www.newmanfund.org](http://www.newmanfund.org) and its ongoing support of the ASA Student Design Competition, Schultz Grant for Educators (with deadline of June 30, 2003), and Newman Student Award Medals. All educators are encouraged to nominate a top student for the Newman Medal. Procedures are provided on the website.

## NEW BUSINESS

- 1) Nomination of new ASA Fellows

- All TCAA members are encouraged to nominate new ASA Fellows. Nominations must consist of letters from two ASA Fellows and a third ASA Member. You do not have to be a fellow to initiate this procedure.

## 2) Technical Council Items (**Tony Hoover**)

- The Classroom Acoustics 2 brochure, developed by the Technical Committee on Speech Communication, is ready and available for purchase through headquarter. Five copies were passed around.
- “Guidelines for Organizers of Special Sessions” are available.
- Technical Initiatives were reviewed (these are listed later in the minutes). The Technical Initiative on developing lesson plans/modules seemed to be confused with the Classroom Acoustics Outreach Activities one, and was therefore not approved. **Steven Brown** made a motion that the lesson plans/modules Technical Initiative be differentiated and resubmitted to the Technical Council. **Ralph Muehleisen** seconded. TCAA approved the motion unanimously.
- Two tours have been proposed for the Austin ASA meeting: one to Bass Concert Hall and the other to Bates Organ Hall. The TC was asked to vote on whether these two should be offered as a single tour, or separate tours. The two venues are a bus ride away from the conference and are in the same building. Majority of TCAA voted that the two venues be combined as single tour; four voted for separate tours.
- Cumulative Index: **John Erdreich** described it as an index of all the articles in JASA and related articles in acoustics, which comes out every five years. Should the ASA continue printing this item or make it available on-line/electronically such that users can search them? After much discussion, **Robin Glosemeyer** made a motion to eliminate the paper version; **Jim Beauchamp** seconded. TCAA voted unanimously in favor of the motion. **Jack Randorff** made a motion that TCAA recommend that both electronic versions be implemented (on CD and on-line); **Jim Beauchamp** seconded. TCAA voted unanimously in favor of the motion.
- The JASA Editor-in-Chief, **Allen Pierce**, would like someone in TCAA to be responsible for TCAA obituaries (**Courtney Burroughs** clarified: someone to be responsible for getting obituaries written, including finding someone to write the obituary and then to edit them). Interested members should communicate with **Tony Hoover**.
- Is TCAA interested in generating a satellite or topical meeting, or an institute on some topic like electroacoustics, perhaps in collaboration with IEEE or AES? Some questioned whether or not this was necessary, and whether we had the energy to deal with it; others commented on the benefits of getting together with other colleagues. **Dana Hougland** commented that instead of focusing on electroacoustics, the question should be whether TCAA was interested in running a satellite meeting at all? **Dave Conant** suggested one on theme park acoustics. **Dana Hougland** said that she would be happy to be a focal person for those who would like to discuss future satellite meetings/institutes (contact her at [dhougland@smwinc.com](mailto:dhougland@smwinc.com) ). No further actions were suggested.
- Is the TCAA in favor of having one Student Reception between all the TCs or to separate into two? And if two are preferred, with which TCs would we like to host one? **Rachel**

**Romond** stated that the Student Council recommends either one reception, or two receptions in adjoining rooms at the same time. Students mentioned that sometimes they have not decided which TC to join; other members liked the cross-pollination with students in other disciplines. **Joe Pope** commented that we do not want it to look like another social, though. **Tony Hoover** will report that TCAA overwhelmingly prefers one student reception or two receptions in adjoining rooms.

- TC on Acoustical Oceanography presented a revised statement of scope. **Courtney Burroughs** made a motion to approve; **Bennett Brooks** seconded. TCAA voted unanimously in favor.

### 3) Sound-absorptive foam (related to Rhode Island club fire)

- Is there TCAA interest in forming a committee to review acoustics, safety, non-acoustical issues, etc.? **Nancy Timmerman** is willing to chair such a group (contact her at [nstpe@hotmail.com](mailto:nstpe@hotmail.com)). Members suggested it would be interesting to have a tutorial or special session on the topic, perhaps in San Diego. Suggested speakers include Ralph Jensen Associates, or Sidney Geier fire protection firm in Kansas who made a report on Rhode Island event. **Brandon Tinianov** suggests committee gather state-of-the-art ideas as precursor to this session. **Steven Brown** discussed that it could be a broader topic on “Health and Safety Issues with Acoustical Materials”. **Jeff Szymanski** noted that the International Code Council will be discussing this at their June meeting (<http://www.iccsafe.org>).

## FUTURE MEETINGS

### 1) Austin, TX: November 10-14, 2003

- The following special sessions are planned for Austin ASA meeting:
  - Acoustic Design of Government Buildings, joint with Noise (**David Marsh**)
  - Electroacoustic Enhancement Systems in Rooms for Music, joint with Musical (**Yasushi Shimizu**)
  - Forensic Acoustics, joint with Noise and Speech Communication (**Jack Randorff**) – There will be both a special session on forensic acoustics and a tutorial/workshop (with \$325 fee). **David Marsh** suggested that these sessions be promoted to lawyers.
  - Small Room Acoustics (**Alex Case**)
  - Sound Quality – When Sound is the Essential Property, joint with Noise, Engineering Acoustics and Musical (**Richard Lyon**)
  - Special Session in Honor of the Contributions of **Elmer Hixson**, joint with Noise and Engineering Acoustics (**Brandon Tinianov**) – A similar session is being planned for **David Blackstock**.
  - Speech Privacy and Speech Intelligibility, joint with Speech Communication (**Ken Roy**)

- **Jack Randorff** suggested that a Distinguished Lecture (possibly a Knudsen Lecture) be given by **Sandy Fidel** on **Ted Schultz**. **Tony Hoover** seconded, and the committee voted in favor. TCAA will present idea to Tech Council for Tech Council approval, then transmit up to Exec Council.
  - The following special sessions were postponed because no replies to personally-addressed status inquiries were received prior to the TCAA meeting.
    - Acoustical Design of Libraries and Archives (**Elizabeth Cohen**)
    - Scattering Topics (**Richard Campbell**)
- 2) New York, NY: May 24-28, 2004 (75<sup>th</sup> Anniversary of the ASA)
- Co-chairs are **Russell Johnson** and **Damian Doria**. The theme is “Acoustics and Humanity (in the Past and in the Future)”.
  - Sessions being planned are:
    - Special Session honoring **Leo Beranek (90<sup>th</sup> Birthday)**
    - Memorial Session honoring **Robert Apfel**
  - Many other special session topics were discussed. Some previously discussed sessions were dropped or combined. Committee consensus was that **Tony Hoover** would exercise authority as TCAA Chair to rank order suggestions and present to TCAA membership in Austin.
    - Active and Passive Acoustical Aspects for Teleconferencing, joint with Engineering (**Rendell Torres**) – this topic can be combined with “Acoustics of Virtual Rooms” previously suggested by **Elizabeth Cohen**, perhaps with title change
    - Bell Labs – How Far Have We Come, joint with Engineering Acoustics (**Neil Shaw**)
    - How to Quantify Opera House Acoustics (**Jin Jeon**)
    - Multisensory integration and the concert experience: How visual input affects what we hear (**Jerry Hyde**)
    - Poster session on Drama Theaters (**Greg Miller**) – **Miller** is interested in having co-chairs for this session
    - Performance Art Spaces (**Chris Jaffe**)
    - Student Design Competition (**Bob Coffeen, Robin Glosemeyer, Lily Wang**)
- 4) Future Conference Schedule:
- San Diego: 15-19 November 2004
    - Possible special sessions on Libraries (**Cohen**), Scattering (**Campbell**), and Spatial and Binaural Evaluation of Performing Art Spaces, joint with Signal Processing (**Ning Xiang**)
  - Vancouver, BC Spring 2005 (Joint with CAA)
  - Fall 2005 is open
  - Providence, Spring 2006

- Hawaii, Dec. 2006 (Joint with Japanese Acoustical Society, INCE/Internoise + possibly INCE Japan)

## TECHNICAL INITIATIVES

*Approved for 2003/Renew for 2004*

- \$750 for Student Design Competition – no expenditures prior to Nashville meeting
- \$600 for Student Receptions (Nashville and Austin with NCAC&NS) – no expenditures prior to Nashville meeting
- \$300 for Web Site Maintenance – 2003 funds expended
- \$500 for AIA Certification for Continuing Education – no expenditures prior to Nashville meeting
- \$2,000 for Outreach for Classroom Acoustics (**Bob Coffeen, Red Wetherill**) – no expenditures prior to Nashville meeting

*Other Status*

- \$1000 to work with Education in Acoustics on developing and promoting lesson plans (modules) for grade/middle school teachers (**Neil Shaw, Rendell Torres**) – as mentioned earlier in minutes, this Technical Initiative will be resubmitted with clarification.
- \$500 to purchase Classroom Acoustics brochure to give to teachers who come to ASA Education in Acoustics sessions (**Ralph Muehleisen**) – this amount was rolled into printing cost of \$3000 for another batch of brochures, but they have not been reprinted yet.
- \$1000 towards development of Tutorial on Forensics in Acoustics, scheduled for Austin – lumped together with TC Noise (\$1000 + \$1000 = total \$2000)

*New Ideas*

- Develop more course material for AIA Continuing Education program (**Dana Houglund**) – will clearly differentiate from other technical initiatives and bring back to TCAA in Austin.

## INTRA-SOCIETY

- **George Winzer** submitted written report on ASA Committee on Standards (ASACOS). A special session is planned by ASACOS for the New York ASA meeting on “Standards Issues: Needs, Development and Technical Issues”. Each technical committee is encouraged to submit relevant standards issues and participate in this special session.

## INTER-SOCIETY

- **Steven Brown** wanted to let students know that Acoustical Testing Standards fall under the ASTM, and currently there is a reduced rate for students who want to join ASTM Committee E33 on Environmental Acoustics.

- ASHRAE is planning a Session on Classroom Acoustics for Modular Units, at their Anaheim meeting (Jan. 24-28, 2004).
- **Bruce Olson** and **Bob Coffeen** announced an educational discount on EASE for interested parties.

## **ADJOURNMENT**

**Jack Randorff** motioned for adjournment and **Ed Logsdon** seconded. By unanimous vote, the meeting adjourned at 10:02 PM.