

MINUTES

TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA) and TECHNICAL COMMITTEE ON NOISE (TCN)

147th Meeting of the Acoustical Society of America

27 May, 2004

7:30 PM

New York, NY

TCAA Chair: **K. Anthony Hoover**

TCN Chair: **Michael Stinson**

TCAA Secretary: **Lily Wang**

Tony Hoover (TCAA Chair) and Michael Stinson (TCN Chair) called the meeting to order at 7:35 PM.

Welcome and Introductions

- ... especially to first time attendees and students.
- Attendees were asked to mark attendance list and verify contact information.

Minutes Approved

- TCAA minutes and TCN minutes from the ASA Austin meeting were approved.

Acknowledgements

Thanks to:

- General Chair: **Damian Doria** and **Russell Johnson**
- Assistant to Co-Chairs: **Katharine Sawicki**
- Technical Program Chair: **Gary Elko**
- TPOM Representatives: **John Erdreich** (TCAA), **Bennett Brooks** and **Brigitte Schulte-Fortkamp** (TCN)
- TCAA Session Chairs: **Rendell Torres**, **Lily Wang**, **Jerald Hyde**, **Robert Coffeen**, **Robin Glosemeyer**, **Yoichi Ando**, **Jin Yong Jeon**, **Greg Miller**, **Neil Shaw**, **Gary Elko**, **James West**, **Elizabeth Cohen**, **Mendel Kleiner**, **Chris Jaffe**, **Neil Rolnik**, **Benjamin Mueller**
- TCN Session Chairs: **Elliott Berger**, **Richard Lyon**, **Brigitte Schulte-Fortkamp**, **Klaus Genuit**, **Scott Sommerfeldt**, **Tony Embleton**, **Leo Beranek**, **Nancy Nadler**, **Daniel Raichel**
- All paper presenters
- ASA 75th Anniversary Book: **Bill Cavanaugh**, **Hank Bass**, and all those who contributed
- **Ning Xiang** and **Lily Wang** for their presentations on the future of acoustics

Congratulations!

- ASA 75th Anniversary
- **Leo Beranek**'s 90th Year
- Helmholtz-Rayleigh Interdisciplinary Silver Medal: **David Lubman**
- New Fellows: **Jian Kang, Keith Wilson, Eric Woods**
- Student Awardees
 - Student winners of the 2004 TCAA/NCAC Student Design Competition, supported by Wenger Foundation were announced by **Bob Coffeen** and **Robin Glosemeyer**. (See results on webpage: www.newmanfund.org)
 - TCN Young Presenter Paper Award (ASA Austin): **Meghan Saweikis**

Technical Council Report

1. Vancouver Social Location: Organizers of the Vancouver ASA/CAS meeting are considering having a social on Tuesday evening at the law court a few blocks away rather than at the hotel. TCAA/TCN members voted that they prefer to keep the social in the hotel rather than at an external location, thereby making it easier to attend the TCAA meeting immediately afterwards.
2. Seminal Paper Collection: ASA Executive Director **Charles Schmid** is interested in compiling the names of any papers/presentations that are considered seminal papers in our technical areas. TCAA/TCN members are encouraged to submit bibliographic information on these papers to **Elaine Moran** (Elaine@aip.org).
3. On-line Paper Copying Service: The on-line paper copying service is operational. All presenters at the NYC conference are encouraged to submit their presentation/paper documents. The system will be accessible for up to 3 months after the conference, with a 10 Mbyte limit on submissions.
4. ASA Listserv Usage: TCAA/TCN members were polled about the use of the ASA listserv. Most members felt that it was being used an appropriate amount. One suggestion was to provide a more detailed subject heading with "ASA" stated in the header. Some members do not list their email in the green ASA Membership book; but they would like to be included on the ASA listserv. **Lily Wang** will ask if there is a way for these people to be included.
5. Ethical Principles Guidelines: A revision of "Guidelines for Ethical Principles of ASA" has been completed. To obtain a copy of this document, please contact **Mike Stinson** (mike.stinson@nrc-cnrc.gc.ca)

Future Meetings

- San Diego
 - The Technical Program Organizing Meeting is scheduled for August 6-8, 2004. **Robin Glosemeyer** volunteered to be the TCAA representative, and **Alan Marsh** volunteered to be the TCN representative.
 - The following TCAA special sessions are planned:
 - Acoustics of Libraries (**Elizabeth Cohen**)
 - Coupled Volume Systems: Design Processes and Implications (**Ralph Muehleisen, David Bradley**)
 - Implementation of Classroom Acoustics I/II, joint with Noise, P&P, Speech, ASACOS (**John Erdreich, Dave Lubman, Lou Sutherland**)
 - Integration of Synthesis Techniques and 'Acoustic' Music, joint with Music (**Tony Hoover**)
 - Spatial and Binaural Evaluation of Performing Art Spaces, joint with Signal Processing (**Ning Xiang, Rendell Torres**)
 - Speech in Architectural Spaces – both Intelligibility and Privacy , joint with Speech and ASACOS (**Ken Roy, Peter Mapp**)
 - Workshop on Classroom Acoustics (half-day) for local teachers, joint with ASACOS, P&P, Speech (**Lou Sutherland, David Lubman**)
 - Hot Topics (speakers to be determined)
 - The following TCN special sessions are planned:
 - Special Session to Honor the Contributions of Robert W. Young, joint with AA, ASACOS, EA, MU, PA, UW (**Alan Marsh**)
 - Active Noise Reduction for Hearing Protection: Technology Opportunities and Assessment of Effectiveness (**Bill Murphy**)
 - Propulsion Airframe Aeroacoustics (**Joe Posey**)
 - Soundscape Sound Quality (**Patricia Davies, Brigitte Schulte-Fortkamp**)
- Vancouver, joint with Canadian Acoustical Association
 - Detailed special session planning for the Vancouver conference will take place in San Diego.
 - CAA members will also be proposing sessions. Special sessions should be chaired by at least one CAA rep and one ASA rep.
 - **Mendel Kleiner** asked whether papers will be presented/published in both French and English. This question will be brought to Technical Council.

- Proposed TCAA special sessions include:
 - Fitting Architectural Acoustics into the Green Building Movement (**Murray Hodgson**) - **Ralph Muehleisen** and **Bob Coffeen** expressed interest in being TCAA representative co-chair.
 - Since there will already be sessions and workshops on Classroom Acoustic Implementations in San Diego, a session proposed by **Murray Hodgson** on Classroom Acoustics may be adapted to the following topic: Possibilities and Problems in Auralization of Classroom Acoustics. This session would be jointly sponsored by Speech and Noise. It would focus on the issues involved with creating web-based demos for classroom acoustic auralization, including room acoustic, noise and listening metrics. **Mendel Kleiner, Bob Coffeen, Peter D'Antonio** all expressed interest in helping to organize this session.
 - Preserving Acoustical Integrity in the course of Renovation, joint with Noise (**Dan Raichel**)
 - Scattering (**Dick Campbell**) **Peter D'Antonio** volunteered to co-chair this session
 - Design of Spaces for Music Therapy and Healing (**Elizabeth Cohen**), joint with Music and P&P. Some TCAA members questioned whether this topic was appropriate for a whole session, but others expressed that they have been working on many jobs involving spas, schools for the blind, etc. Discussion was tabled until San Diego meeting.
 - Soundscape – focused on architectural point of view, joint with Noise (**Brigitte Schulte-Fortkamp**)
 - Student Design Competition (**Bob Coffeen, Robin Glosemeyer, Byron Harrison**)... TCAA members were interested in making an effort to involve more Canadian students.

- Proposed TCN special sessions include:
 - Canadian Contributions to Building Acoustics, joint with AA, EA (**Dana Hougland**) – including NRC contributions
 - Characterization of Noise Control Materials (**Brandon Tinianow**)
 - Multi-Reference NAH for Noise Source Identification (**Stuart Bolton**)
 - Noise Control Feasibility: Technical, Legal, and Economic Issues, joint with ASACOS (**John Seiler, Angie Campanella**)
 - Occupational Noise (**Murray Hodgson, Hugh Davies**)
 - Urban Sound Propagation (**Ning Xiang, Jian Kang**)

- Workshop (half or full day) on Methods for Community Noise and Annoyance Evaluation (**Brigitte Schulte-Fortkamp, Bennett Brooks**)
- Minneapolis, Fall 2005 (Joint with INCE, NOISE-CON)
 - **Patricia Davies** and **Stuart Bolton** are Technical Program Chairs for NOISE-CON
 - Special Sessions for this Minneapolis meeting will need to be decided upon at the San Diego meeting in addition to Vancouver meeting.
 - Several joint NOISE-CON/ASA sessions are being proposed, including:
 - Building Uncertainty into Standards (**Bill Murphy**)
 - A Special Session for Bill Lang (**Paul Schomer, George Maling**)
 - Hospital Noise (**Ilene Busch-Vishniac, Jim West**)
 - Laser Measurements Related to Acoustics (**Gerry Carrol**)
 - Noise Policy (**Bennett Brooks**)
 - Other suggested sessions include:
 - Sessions that may be of interest to SAE members (**Dan Raichel**)
 - Results from TCAA Product Safety Subcommittee (**Nancy Timmerman**)
- Providence, Spring 2006
- Hawaii, Dec. 2006 (Joint with Japanese Acoustical Society, INCE/Internoise)
 - Tuesday through Saturday (ASA/ASJ) followed by Internoise
 - Impact of Acoustics (Cross-Modality Effects) on Perception of Ensemble, TCAA joint with Music and P&P (**Elizabeth Cohen**)

2004 Technical Initiatives

- **George Wong** presented a request for financial support towards a meeting on ISO standards to be held in North America. TCAA and TCN members were strongly in support of this. A motion was made and approved: that the ASA organization as a whole should provide the financial support; if that is not possible, then both TCAA and TCN are in favor of donating \$1000 each from Technical Initiative funds.
- AA
 - Student Design Competition (preappr) \$750
 - Student Reception (preappr) \$300*2
 - Webpage Maintenance (preappr) \$300

- AIA Certification for Continuing Education (**Tony Hoover**, \$500 for each CE class) **Bennett Brooks** has written an explanation to be given to Technical Council and possibly published in Echoes.
- A Technical Initiative was proposed by **Ralph Muehleisen** to cover the printing costs of the remaining Classroom Acoustics II booklets; then the booklet can be released more openly (i.e. in PDF format) to the general public. TCAA voted in favor of putting forth this initiative.
- Outreach for Classroom Acoustics (**Coffeen, Wetherill, Sutherland, Lubman**, \$2000) – would like to submit for 2005; confirm at San Diego meeting.
- Lesson Plans with Education in Acoustics (**Shaw, Kleiner, Muehleisen**, \$1000) – would like to submit for 2005; confirm at San Diego meeting.
- Noise
 - Young Presenter Award(s) (preappr) \$1000
 - Student Reception (preappr) (San Diego only, with NCAC, AA) \$300
 - Webpage Maintenance (preappr) \$300
 - NHCA sponsorship \$1575
 - Travel Support for Invited Speakers \$1500

Committee Reports

- Medals and Awards (AA: **Red Wetherill** to 2005; Noise: **Nancy Timmerman** to 2006)
 - Nominees are requested for any awards that the society gives.
- Membership (AA: **Greg Tocci** to 2007; Noise: **John Erdreich**)
 - All members are encouraged to nominate fellows. Projects, testimonials, letters from clients may be included in dossier, particularly for ASA members who are consultants
- Standards (ASACOS) (AA: **George Winzer**; Noise: **Richard Peppin**)
 - **Bob Hellweg** stated that papers from the special session on Standards will be available.
 - **Angie Campanella** noted that the definition standards are being revised (S1.1) If you have suggestions, please let him know.
- Student Council (AA: **David T. Bradley**; Noise: **Brian Anderson**)
 - First pilot student chapter has been established at the University of Nebraska. Templates for other student chapters will be available soon.
 - To improve networking between students and the College of Fellows, students will be welcomed in the Fellows lounges at ASA meetings.

- Fifteen nominations were submitted for the Student Council Mentoring Award. The award recipient will be announced at the San Diego plenary meeting.
- The student council plans to sponsor a series of workshops on applying for graduate research fellowships. The first workshop will be held during the San Diego meeting, with representatives from NSF and NIH.
- JASA Editors and Associate Editors (AA: **Mendel Kleiner, Ning Xiang**; Noise: **Ken Cunefare, Keith Wilson, Allan Zuckerwar**)
 - **Kleiner** and **Xiang** reported that papers submitted in the AA area have about 30% acceptance rate, and a 6 to 9 month turnaround.
 - **Wilson** reported that citing ephemeral weblinks in JASA publications is acceptable, since they may be treated like personal communications.
 - Most members expressed positive comments about the new Peer Express review system.
- Public Policy (AA: **Angie Campanella**; Noise: **Larry Finegold**)
 - This committee is preparing a statement on marine mammal acoustics. A future statement on classroom acoustics is planned.
- Noise, Young Presenter Award for New York (**Ralph Muehleisen**) –
 - There were six entries for the award. The award recipients were **Brian Monson** from BYU for the paper “Active noise control of small axial cooling fans” and **Alexander Streeter** from Dartmouth for the paper “Hybrid feedforward-feedback active noise control for circumaural headsets”. TCN approved a motion that all entrants should be required to submit their presentation to the Online Paper Copying Service

Old Business

- 1) Concert Hall Research Group Update (**Tim Foulkes/Chris Storch**) – The CD compilation of concert hall data is finished and will be mailed to all contributors in the next 2-3 weeks.
- 2) Newman Student Award Fund Update (**Bill Cavanaugh/Lily Wang**)
 - a. **Wang** provided updates on the Newman Student Award Medals, Student Design Competition, Schultz Grant, Professional Sponsors program, and a newly proposed Donate-a-Library program. See the Newman Fund webpage for more information: www.newmanfund.org
 - b. Thanks to **Damian Doria** and other conference organizers for finding a place to keep the winning SDC posters displayed at the NYC meeting.
- 3) Classroom Acoustics Update (**David Lubman, Lou Sutherland, Bob Coffeen, Red Wetherill**)
 - a. **Lubman** and **Sutherland** reported on the positive activity that is happening concerning classroom acoustics. A brainstorming meeting was held on Tuesday night at the NYC ASA meeting, which generated ideas on how to continue to promote this activity.

- 4) Acoustic Data Working Group (**Ken Roy**)
 - a. Two dozen members have expressed interest. The plan is to gather absorption data for generic materials, certify them, and sort them into two groups: 1) well certified or 2) not well-certified. The materials in group 2 will then be ranked in importance, and TCAA may try to get some of these certified. The list of materials will be kept up-to-date on a website. Contact **Ken Roy** (kproy@armstrong.com) if you're interested in participating with this group.
- 5) Subcommittee on Product Safety and Health Related Issues (Nancy Timmerman)
– a full report will be presented at the San Diego meeting

Other/New Business

- 1) Upcoming conferences that were announced include:
 - a. Noise-Con in Baltimore (12-14 July 2004) – will be a workshop about noise policy, also a session on how to be session chairs
 - b. Internoise in Prague (22-25 August 2004)
 - c. International INCE in Rio de Janeiro, Brazil (6-10 August 2005)
- 2) Proceedings from conference on impact noise in Cincinnati are available at www.cdc.gov/niosh
- 3) The new TCAA Chair, **Lily Wang**, and TCAA Secretary, **Brandon Tinianow**, were installed. Many thanks to **Tony Hoover** for his excellent leadership over the past 3 years!

Meeting was adjourned at 10:10 PM.