

# MEETING MINUTES TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS (TCAA)

Date: December 4, 1997

TCAA CHAIR: Dana Hougland  
TCAA SECRETARY: Ron Freiheit

## ATTENDEES

Dave Adams, Arno Bommer, Dave Braslau, Frank Brittain, Steve Brown, Mahlon Burkhard, Angelo Campanella, Bill Cavanaugh, Wing T. Chu, John Erdreich, Tom McGraw, Dick Guernsey, Dean Heerwagen, Bob Hellweg, Davis Hock, Tony Hoover, Chris Jaffe, John Kopec, Jerry Lilly, David Lubman, David Marsh, Daniel W. Martin, Stephen Martin, Matthew Nobile, Jon Nordman, Paul B. Ostergaard, Richard J. Peppin, Michel Picard, Joe Pope, David Quirt, Jack Randorff, Kenneth Roy, Neil A. Shaw, Paul Schomer, Gary Siebein, Noral Stewart, Lou Sutherland, Greg Tocci, Dave Walsh, Philip Wentz, George W. Winzer, Robert Young.

## ANNOUNCEMENTS:

SEATTLE Joint Meeting between ASA/ICA June 20-28, 1998  
Proceedings are required including camera ready presentation. Extended abstracts due February 16 1997.

## ACKNOWLEDGMENTS:

Thanks to the session chairs and co-chairs; Chair - **Neil A. Shaw** - Loudspeakers for Listening Spaces, Chair - **Steven M. Brown** - Vern O. Knudsen Distinguished Lecture with **Christopher Jaffe**, Chair - **Bill Cavanaugh** - Book Signing in Honor of "The Sabines at Riverbank" written by **John Kopec**, Cochair - **Leo L. Beranek** and Cochair **David Lubman** - Paul S. Veneklasen Memorial Session. Thanks also to each of the presenters at this session. Special thanks **Dave Lubman** for being session Paper Sorter. Special Acknowledgments to each of the award winners: **Robert W. Young** - Honorary Fellowship in the ASA, **Russell Johnson** - Wallace Clement Sabine Award for the ASA. Special Thanks to those associated with our committee who worked on organizing the weekend workshop on "Eliminating Acoustical Barriers to Learning in Classrooms", **Bennett M. Brooks**, **Dana S. Hougland**, **Michael T. Nixon**, **David Lubman**, **Louis C. Sutherland**, **Mark Schaffer**, **T. James Du Bois**, **Richard Peppin**, **Jerry Lilly**.

## PREVIOUS MINUTES:

A motion to accept the meeting minutes from the Penn. State TCAA made by **Neil Shaw**, seconded by **John Kopec**.

**OLD BUSINESS:**

Classroom Acoustics Task Force (TI):

"Eliminating Acoustical Barriers to the Learning in Classrooms" workshop this weekend (December 6th and 7th) in Los Angeles at the House Ear Institute. There are about 80 expected to be in attendance. A meeting was also held in September with the Los Angeles Unified School District to brief them on the key issues in classroom acoustics and practical solutions to acoustical problems. An article also appeared in the "L. A. Times" on the topic.

**John Erdreich** and **Marty Alexander** will work on setting up a workshop for the East Coast region. Suggestions were made that this be in New York or Washington D.C. A comment was made that there may be interest in a poster session on classroom acoustics and possibly a book could be published from the poster session. **Mark Shaffer**, **Lou Sutherland** and **David Lubman** made a presentation on the problems with HVAC associated noise. **Lou Sutherland** collected the information from the presentation. If members are interested in obtaining a copy of the presentation, please contact **Dana Hougland**, TCAA Chair. Copying and distribution are partially funded by the TCAA technical initiatives. The intent is to encourage committee members to utilize the materials to develop presentations to their local school boards and their architects. These presentations now qualify for CEU credits. There are plans to further develop the presentation package with materials developed for the "Eliminating Acoustical Barriers to the Learning in Classrooms" workshop. **Gary Siebein** suggested that these presentations be posted on the TCAA/ASA website. **Neil Shaw** commented from his work with the Books Plus committee that the ASA would like to make these presentation materials available for sale. The original TCAA technical initiative (TI) set aside funds to be used to create originals, not for funding mass production which the ASA would do as a saleable item. **Richard Peppin**, **John Erdreich** and **Dana Hougland** discussed the need for peer review and the merits of maintaining course content and quality. TI money has been used to invite AIA certification and support of the seminars. The ASA is also taking care of the mailing costs for the presentation materials. **Dave Lubman** stated that he disagrees with working with the Books Committee from the ASA. If they are in charge of the mass production, they want the ability to review course content and quality. The Books Committee controls what they pay for. It was stated that the AIP has sold the book-publishing arm of the organization. The Classroom Acoustics Task Force will continue to meet and work on this area of acoustics. The seminars are part of this task force and they will work on meeting this need for presentation materials. **Gary Siebein**, **Neil Shaw**, **Rich Peppin**, **Angelo Campanella**, **John Erdreich**, **Jack Randorff** and **Jerry Lilly** volunteered to do a review of the existing presentation.

Meeting Room Acoustics - **David Lubman** reported that we need to collect the existing materials suggested that it should be made into a "traveling road show". **Rick Talaske**

is still currently working on this. **Neil Shaw** suggest that we use the Classroom Acoustics Workshop as a "test case" for this process.

Election of a new Chairperson - The Seattle meeting (June 1998) will be the transition from the present Chairperson to the new Chairperson. Nominations for new Chairperson were **Bob Coffeen** and **Ron Freiheit**. **Ron Freiheit** was elected as the Chairperson for the next term.

## **FUTURE MEETINGS:**

SEATTLE, WA Joint Meeting between ASA/ICA June 20-26, 1998  
Proceedings are required including camera ready presentation. Extended abstracts due February 16 1997.

Michael Yantis has agreed serve as the Paper Sorter.

154 papers were submitted for this session with 89 general contributed papers. Due to the high number of papers, some of these will have to be placed in poster sessions.

The following special sessions are currently planned:

Case Study on the New Tokyo Performing Arts Center - **Leo Beranek**

Case Study on the Tokyo International Forum - **Chris Jaffe**

Opera house design and spaces for the performance of opera: Case Histories - **Roberto Pompoli** and **Robert Essert** (MCHA, CIARM)

State of the art of Opera House Acoustics: Past, Present and Future - **Roberto Pompoli** (MCHA, CIARM)

Sound Field for the Audience - **Yoichi Ando** (MCHA, CIARM)

Opera House Student Design Competition - **Bob Coffeen**

Opera Halls and Opera Singers or Sound Field for Orchestra and Singers - **Roberto Pompoli** and **Ingo Titze** (MCHA, CIARM, MU)

Impact of Trains on Performance Halls - **George Wilson** (AA, NS)

Measuring and Modeling Noise Flanking Transmission in Floors - **Trevor Nightingale** (Joint session between AA and Noise).

Knudsen Lecture for Seattle - **John Bradley**

Contributed Sessions may include sessions on: Classroom Acoustics, Sound Transmission, Room Acoustic Testing, or Church/Domed Structures (Poster Sessions)

TCAA will meet Monday night (June 22) at the Seattle meeting (Noise will be on Tuesday night). Book signing at 7:00 pm with TCAA meeting at 7:30 pm (see next item).

**Jack Randorff** suggested that a book signing, wine and cheese, session for **Bob Apfel's** new book "Deaf Architects and Blind Acousticians". This will be scheduled just prior to the TCAA meeting in Seattle. Book signing at 7:00 pm with TCAA meeting at 7:30 pm.

A Student Design Competition is scheduled for the Seattle meeting - **Bob Coffeen**

NORFOLK, VA - October 12-16, 1998 Organizers: **Norel Stewart** and **George Winzer**  
Moveable Acoustics - **Neil Shaw** (Cruise ships)

Microphone Techniques - **Dick Campbell**

Integration of Acoustics for Organs in Performance Spaces - **Dan Clayton**

Acoustics for Office Spaces - **Ken Roy**

Characterization of Scattering - **Peter D'Antonio**

BERLIN, GERMANY - Joint with the European Acoustics Assoc. (EAA) - March 15-19, 1999

There is a minimum of four (4) invited speakers for each session (EAA requirement).

Monday opening ceremony with the Berlin Philharmonic and discussion of the halls acoustics.

English is the selected language Monday through Thursday. Friday is open (including English).

Papers will be 20 minute long both invited and contributed.

Organizers (done after the Norfolk meeting) - **Angelo Campanella** and **George Winzer**  
The proposed topics and organizers are being submitted for review and coordination with the EAA.

Modeling of Acoustics Industrial Buildings (AA, NS) - **Murray Hodgson, George Winzer**

Verification of Modeling and Auralization Programs - **Dick Campbell, Bob Coffeen, and Mendel Kleiner**. May be co-sponsored by DSP.

Coupled Spaces and Reverberant Chambers in Acoustic Design - **Sam Berkow** - withdrawn

Acoustics for Choral Performance - withdrawn for lack of an organizer.

Classroom Acoustics - withdrawn for lack of an organizer.

COLUMBUS, OH November 1-5, 1999

Tentative special sessions:

Proposal on Archeological Acoustics - Special Session - **Dave Lubman**

Acoustics for Concert Halls - **Leo Beranek** organizer, **Jurgen Meyer**. This session has been moved to the Berlin meeting by the EAA.

Flanking Noise - **Trevor Nightingale** and others (?)

#### **TECHNICAL INITIATIVE (TI) STATUS REPORTS AND REQUESTS FOR 1998**

Classroom Acoustics Home Page (TI) - **Dave Lubman** reported that **George Mailing** did the first posting for this webpage. The update has not been completed yet. Also included are links to other webpages. **Angelo Campanella** commented that the TCAA home page FAQ file would be done in conjunction with this webpage.

Classroom Acoustics (see Old Business section above)

Concert Hall Research Group (CHRG) Technical Initiative (TI) - **Bill Cavanaugh** reported for **Tim Foulkes** (chairperson for CHRG). **Dick Campbell** is still working on compiling the material that is going on to the CD-ROM. **Dick Campbell** hopes to have something to show at the Seattle meeting in June.

TCAA Home Page (TI) - Webpage - **Scott Pfeiffer**: No Report

Travel Funding for Students - Will be used as needed for future meetings.

## **EXECUTIVE COUNCIL REPORT**

New Dues Structure - In 1998 full members selecting either the CD-ROM or the printed journal will be \$120, or if both are requested it will be \$140. If neither is requested, the member will receive the off print at \$80. Short term dues will be \$20. Students memberships will be \$35 and receive the CD-ROM every other month with the off print each month. The plan is to have JASA go on-line in the second half of 1998. This will be become part of the dues options for 1999.

## **INTRA SOCIETY REPORTS**

**Standards Activities - George W. Winzer** A proposed need for frequency weighting network for animal acoustics (other than humans). There's also been some discussion about including computer programs with the standards. A committee we be set up to investigate this. There has also been an attempt to define the role of individual experts within in the various technical groups.

## **INTER SOCIETY REPORTS**

None

## **NEW BUSINESS**

Classroom Acoustics Home Page (TI) - **Dave Lubman** reported that **George Mailing** did the first posting for this webpage. The update has not been completed yet. Also included are links to other webpages. **Angelo Campanella** commented that the TCAA home page FAQ file would be done in conjunction with this webpage.

**Neil Shaw** suggested that it would be beneficial for the participant to have a "take home" package of information from the Classroom Acoustics Workshop. **Neil Shaw** has put together a booklet and a CD-ROM in support of the Classroom Acoustics Workshop. **Neil Shaw** offers this material to whoever would like to include this with the workshop. The booklet covers speech intelligibility tests as well as basic room acoustics. **Steve Brown** made a motion that TCAA use TI money for review and production of this material. The motion was voted on and passed unanimously. The initiative money will be used to develop the previously mentioned presentation package in both an electronic and traditional AV format. **Gary Siebein** volunteered to utilize some of his graduate students for the material review. **Neil Shaw, Gary Siebein** and **Ken Roy** will meet and present the Chairperson (**Dana Houglund**) with a proposed budget amount for submission to the Technical Council.

News Release from ACSA regarding Architectural Research - Research Group - **Gary Siebein** reported that there is a new advisory board within ACSA looking into Architectural Research projects. **Dana Houglund** and **Gary Siebein** suggested that the

TCAA should have a representative at this meeting. **Gary Siebein** will contact ACSA to let them know that the TCAA/ASA is interested in participating.

Appointment of new representative to the Membership Committee - **Dick Guernsey** is retiring from this committee and looking for a replacement for his position on this committee. The appointment is for three years. Fellowships are a requirement. Greg Tocci volunteered to be the TCAA representative.

Appointment of representative to ASACOS Future Meetings - George Winzer is re-submitting for membership in ASACOS for another term.

Hot Topics and Tutorials/Short Courses Committee - **Gary Siebein** reported the committee is looking for more suggestions. Please contact **Gary Siebein** if there any new ideas for the committee. The Auralization Short Course had been asked to be presented again. This may be offered again at the Norfolk meeting. (Following the meeting Mendel Kleiner agreed to present the short course again at Norfolk).

Inter-Noise 98 (New Zealand - Christchurch) - Nov. 98'. **Lou Sutherland** presented information on this meeting to the TCAA. There are brochures available with more information.

"Blind Architects and Deaf Acousticans": **Bob Apfel's** book will be published soon. Bob Apfel has set up that \$5 of each book sale will be giving to the ASA Foundation.

## **MEETING ADJOURNMENT**

A motion to adjourn was made by **Neil Shaw** and seconded by **David Marsh**.