

TECHNICAL COMMITTEE ON ARCHITECTURAL ACOUSTICS, (TCAA)

Date: 6/26/1996

From: TCAA Secretary - **Ron Freiheit**

Subject: TCAA Minutes of May 14, 1996. Documented at the 131th meeting of the Acoustical Society of America (ASA), in Indianapolis, IN.

TCAA CHAIR: Dana Hougland

TCAA SECRETARY: Ron Freiheit

ATTENDEES: David Adams, Bennett Brooks, John Bradley, Christopher Brooks, Steve Brown, Angelo Campanella, Antonio Pedro Carvalho, Bill Cavanaugh, Michelle Chambers, Dan Clayton, Pamela Clements, Bob Coffeen, David Conant, John Erdreich, Robert Essert, Tim Foulkes, Richard Guernsey, Christopher Herr, Dr. J. Christopher Jaffe, Bertram Kinzey, Dana Kirkegaard, John Kopec, Paul Kovitz, David Lubman, Gerald Marshall, Tom Mc Graw, Paul Ostergaard, Dennis Paoletti, Richard Peppin, Scott Pfeiffer, Michel Picard, Joe Pope, David Prince, Daniel Prusinowski, Jack Randorff, Stanley Roller, Dawn Schuette, Kenneth Scott, Gary Siebein, Noral Stewart, Rick Talaske, Buzz Towne, Rendell Torres, Lily Wang, George Winzer.

INTRODUCTION :

ACKNOWLEDGMENTS:

Thanks to the chairpersons for the paper presentations; **Dave Lubman, Dana Kirkegaard, Bill Cavanaugh, Dana Hougland, Bennett Brooks, Tim Foulkes, Rick Talaske, David Prince** and **Leo Beranek**.

PREVIOUS MINUTES:

Acceptance of minutes of the St. Louis meeting: Motion made by **Dan Clayton (?)** seconded by **John Kopec**.

OLD BUSINESS:

List Server: The previous problems with the list server have been worked out and now seems to be working fine. Questions that come into the ASA office are placed on the

server by **Elaine Moran** as a way to try and get answers for the requests. It is requested that those who can assist with these questions, please do so.

Meeting Room Acoustics:

Rick Talaske prepared a draft guideline regarding meeting room acoustics directed at individual who use or select "meeting rooms". The initial draft was sent out to those who had previously expressed an interest in this area. If there is anyone else that is interested in reviewing this draft, please contact **Rick Talaske**.

FUTURE MEETINGS:

HONOLULU HAWAII MEETING: December 2- 6, 1996

Auralization: Organizers - **Mendel Kleiner, Neil Shaw, Masayuki Morimoto**
No list of authors yet.

Demonstration of Computational Acoustics (Joint with Signal Processing): Organizer - **David Braslau** Demonstrations - CATT, Odeon, EASE, lake and Wenger (CATT rehearsal room applications).

Room Acoustic Hall Measurements (proposed by Acoustical Society of Japan (ASJ)):
Organizer - **Dana Kirkegaard** (ASA), **Hideki Tachibana** (ASJ) It will happen (not sure how many papers yet).

Floor Impact Sound (proposed by ASJ): Organizer - **Anthony Nash** (ASA), **Hideki Tachibana** (ASJ) Invited speaker list not finalized yet.

Structure-Borne Sound in Buildings (proposed by ASJ): Organizer - **Hideki Tachibana** (ASJ), **George Wilson** (ASA) Session will happen.

Real Time Sound Field Control for Simulation of Auditoria (joint with Signal Processing):
Organizer - **David Havelock** (ASA), **Yoshio Yamasaki** (ASJ), **Jiri Tichy**
This will be a session.

Related Events: Short Course In Auralization The tutorial committee not decided if we are going ahead with this short course. There is high interest in have this (the course will be taught by **Mendel Kleiner** and **Peter Swenson**). It will be a 2 day class.

Probably held just before the start of the meeting. (Dana what was decided with this issue?)

The paper sorter for Hawaii meeting is **David Adams** (ASA). Abstracts will go to Woodbury (ASA). **Hideki Tachibana** (ASJ) will also help.

PENN STATE MEETING: Spring 1997 (in conjunction with INCE)

Jiri Tichy (INCE chairman) - If there are papers related to noise, it is suggested that they be moved to INCE meeting presentation. It was suggested that their not be competing papers in Noise during the ASA meeting.

Measurement and Modeling of Flanking Transmission: Organizer - **Trevor Nightingale**

Speech Intelligibility in Rooms: Organizers - **Jerry Marshall** and **John Bradley**

The session will happen. Some of the papers may talk about need for room acoustics and sound reinforcement since their appears to be different views on how to accomplish effective speech intelligibility.

Knudsen Lecture: **Bill Cavanaugh** has submitted a proposal.

Proposal for Distinguished Lecture: **Bill Cavanaugh** reported that **George Izenour** has been proposed for the lecture.

Other Sessions

Bob Coffeen suggested that a poster session on large audience spaces could be presented. The poster session would include topics in acoustics, sound systems and noise control. **Angelo Campanella** and **Dr. J. Christopher Jaffe** also expressed interest in working with this session.

Related Events: Tentative Joint Meeting with INCE (Sunday, Monday, Tuesday)

SAN DIEGO: Fall 1997

Recording, Production and Editing Facilities: Organizer - **David Prince**

The concept is for a poster session along with a book. **Russ Berger** has agreed to help with this session.

Sound Reinforcement of Large Spaces (may be moved to Penn State meeting)

FUTURE MEETING LOCATIONS:

SEATTLE - Spring 1998 (Joint meeting with ICA)

10 Plenary sessions.

Advisory Representatives- **Mendel Kleiner, David Lubman, Jerry Lilly, Red Wetherill.**

Basic Schedule Information - Not available at this time.

TECHNICAL INITIATIVES:

1. The Concert Hall Research Group Project (CHRG): Archiving Concert Hall Data on CD-ROM

Tim Foulkes - The CHRG is ready to utilize the funding provided by the ASA technical initiative. The money will be used to support the student labor needed to load data into the CD-ROM format (supervised by **Dick Campbell**) and manufacture the CD-ROM's (writeable). Some of the funding may also be needed to provide support for graduate students at the NRC who are also assisting with this project.

A meeting of the CHRG will be tomorrow at 7:30 pm in Salon A (5-15-96)

JASA is offering to disseminate the information as it becomes available.

2. **David Prince** - There was a change in the use for the technical initiative for the Indianapolis meeting from funding advertising for the Jurgen Meyer session to funding the orchestra that was part of the Jurgen Meyer session on Directivity of Musical Instruments.

Advertising in various magazines. \$900 was approved by technical council.
(Dana...was this part of David money that he was going to use for advertising?)

EXECUTIVE COUNCIL REPORT:

Election Results:

Two people elected, (get results from May/June Journal). The council continues to work on electronic publication. Financially the ASA is doing fairly well.

Request for TCAA Representative to the Home Page: The TCAA has been requested to provide support for a home page on the world wide web as part of the ASA. It's expected that the information will be updated twice a year. **Scott Pfeiffer** had volunteered to be the representative from the TCAA.

Proposals for Future Expansion of Electronic Publishing:

TECHNICAL COUNCIL REPORT:

Short course Topics & Tutorials:

Suggestions would be appreciated and should be sent to **Gary Siebein**.

Satellite Meetings and Workshops:

The group is currently working on guidelines for this within the society for satellite meetings and workshop sessions. The society is encouraging more of these types of events. Please bring any suggestions or ideas to the committee.

INTRA SOCIETY:

TCAA Subcommittees:

A. Medals & Awards:

Steve Brown - Currently there is an informal group considers candidates for the ASA silver and gold medals. It might be a good idea for formalize this group. If there is anyone interested in working on this activity contact **Dana Houglund** about this.

B. Membership:

Nothing to report. Two members of the TCAA were recently sponsored for Fellowship.

C. Audio:

Bob Coffeen - Bob is ready to do a session related to audio in the near future.

D. Student Competition:

Bob Coffeen - Bob has a prepared student competition proposal for Penn State meeting which will be sent out to schools of architecture and architectural engineering allowing the students a year to work on their projects. Bob would be interested in comments via e-mail, phone or FAX.

E. Newman Award: **Bill Cavanaugh** - Nothing to report on the Newman award. Bob did mention an award that is sponsored by the Greater Boston Chapter of the ASA for all schools of architecture that have classes in architectural acoustics. Each school can have a medalist each year.

ASACOS:

George Winzer - The group is looking for someone who has expertise in with buildings with vibration problems to work on international standards. Please contact **George Winzer** if you're interested in working on this project. Currently there are 75 working groups with 584 members (284 are ASA members). New standards for 1996 are: ANSI S1.9 Instruments For The Measurement of Sound Intensity; S1-13 Measurement of Sound Pressure Levels in Air, S3.6 Specification for Audiometers, S3.22 Specifications of Hearing Aid Characteristics, S3.44 Determination of Occupational Noise Exposure and Estimation of Noise-Induced Hearing Impairment, S12.19 Measurement of Occupational Noise Exposure.

Long Range Planning:

A town meeting at the Indianapolis session.

JASA: - The society continues to work with CD-ROM technology and e-mail for abstracts.

Archives & History:

Meets tomorrow see Dana for comments

Committee on Meetings:

John Kopec - Currently any meetings in the Atlanta area are having a financial problems with accommodation rates.

There will be a spring meeting in Chicago in 2001.

Tutorials:

Gary Siebein - see above under technical council report.

ASA Women Status: - No report

CHRG: (see above under TCAA technical initiatives)

INTER SOCIETY:

NCAC: - no report

ASTM: - no report

AES: - no report

ASHRAE: - no report

INCE: - no report

CAS: - no report

SMPTE: - no report

AIA: **Dennis Paoletti** - The AIA held their National Convention in Minneapolis during mid May. At the convention there was a session on entertainment and theatrical facilities. This session was presented by members from ASTC, NCAC, USITT. There were 150 attendee's at this session. **Red Wetherill** also presented on Noise Control at this convention.

NEW BUSINESS:

Technical Discussion on Classroom Acoustics

Buzz Towne - A presentation was made to the TCAA about the need for involvement by the acoustical community in the area acoustics for classrooms. See attached to the mailed TCAA notes is a copy of the presentation.

Buzz is requesting for assistance from the Acoustical Society in this area. During the discussion that followed the presentation there were suggestions for offering "good" classroom designs as a "template" to provide reference for designers to start from (**Stan Roller** volunteered to work on this). **David Prince** stated that he has appealed directly to school boards to get good acoustic designs accepted. **Mike Nixon** commented on how the ADA might be used to help focus on the problem with poor class room acoustics. Currently there is nothing in the ADA guidelines that applies directly to architectural acoustics. The ADA is accepting comments until September of 1996 for recommendations and comments in the ADA guidelines. Mike suggested that there needs to be at least something calling attention to the area of architectural acoustics. **David Lubman** had suggested after the sessions on ADA at the Washington D.C. meeting that there needed to be more research done. Currently ASHRAE has the most advice in their guidelines on proper room design. There were suggestions that auralization could be used to help people understand the potential problems that could be created by poor classroom designs. Another suggestion was to try and get to the NEA to assist in educating design people on the need for good classroom acoustics.

Gary Siebein suggested that there needed to be additional research and definition on what true signal to noise is. **David Lubman** suggested creating a subcommittee to work jointly with ASHRAE.

Dana Houglund proposed to the TCAA to create a subcommittee to identify the research that already exists and additional research that may be needed to make "a case for change" and to identify those people who are the most important to contact in this area and then to move forward with comments through the Acoustical Society. The following members volunteered to work on this committee: **Gary Siebein, Christopher Brooks, Angelo Campanella, David Braslau, David Prince, Chris Brooks, David Lubman, Mike Nixon, Buzz Towne.** A motion was made **Chris Brooks** seconded by **Mike Nixon** (?). It was passed unanimously. The goal for the committee is to have a report on or before the next meeting.

Other Topics

None

MEETING ADJOURNMENT:

Motion by **David Braslau**, seconded by **John Kopec**. Meeting adjourned.

Attachments:

email list

Buzz Towns presentation (mail only)

Student Competition proposal (mail only)