

Structural Acoustics and Vibration Technical Committee

Technical Committee Meeting
164th ASA Meeting in Kansas City, MO
23 October 2012
7:30 p.m.

Agenda

Those in attendance: James Phillips, Matthew Shaw (Student Council), Robert Koch, Dan Russell, James Nelson, Sabih Hayek, David Feit, Christina Naify, Timothy Walsh, Liang Wu Cai, Tribikram Kundu, Anton Filyayev, Tim Sweeney, Miles Possing, Irineo Jaimes, Erich Pfister, Karl Grosh, Julien Meaud, Ken Cunefare, Paul Bauch, Brian Anderson, Scott Sommerfeldt, Allan Pierce, Micah Shepherd, Marcel Remillieux, Ben Shafer, Jerry Ginsberg, Eric Ungar

1. Called To Order by James Phillips at 7:34pm.
2. Agenda
3. Approval Of the 163rd ASA Meeting minutes from Hong Kong, China
Jim Nelson motion, Karl Grosh seconded, minutes approved unanimously.
4. Review of Graduate Programs Directory (passed out with attendance sheet and members requested to add corrections if needed – Chair’s note: no corrections were made)
5. Report from 163rd ASA Meeting in Hong Kong, China:
 - Winners of The Best Student Paper Awards:
 - 1st Place
André Verstappen, University of Canterbury, New Zealand
Influential parameters in system damping performance of viscoelastically damped plates
 - 2nd Place
Ye Wang, Harbin Engineering University, China
Research on engine exhaust noise control based on the neural network
 - Thank you to James Phillips for organizing the student papers awards in Hong Kong.
 - Thank you to Robert Koch, SAVTC TPOM representative for the 164th Meeting, Kansas City
 - Thank you to special session chairs for 164th Meeting, Kansas City
 - Ben Shafer – Damping Applications and Modeling
 - Allan Pierce and Greg McDaniel – Session in Honor of Preston W. Smith, Jr.
 - Tribikram Kundu and Wolfgang Grill – Guided Waves for NDE and SHM

- Henrique Reis and Michael Lowe – Guided Waves II
- Micah Shepherd – Structural Acoustic Optimization

6. 165th ASA/CAA Meeting, Montreal, Canada, June 2-7, 2013

a. Final special sessions:

- Acoustic Metamaterials, Dean Capone & Yun Jing (joint with Noise, Engineering Acoustics and Physical Acoustics)
- History and Application of Constrained Layer Damping, Ben Shafer
- Measurement and Modeling of Structures with Attached Noise Control Materials, Nouredine Atalla, Franck Sgard
- Memorial Session in Honor of Miguel Junger, David Feit, Joel Garrelick
- Noise Control Methods for Composite Structures, Gopal Mathur, (joint with Engineering Acoustics and Noise)

b. MANUSCRIPTS REQUIRED TO PRESENT (2-8 pages)

i. **Abstracts due November 15, 2012**

ii. Manuscripts & registration fee due January 22, 2013

c. There will be opening and closing ceremonies (Sunday & Friday)

d. TPOM on February 15-16, 2013, TPOM Representative: Robert Koch

e. Student paper awards: Benjamin Shafer

7. 166th ASA Meeting, San Francisco, CA, December 2-6, 2013

a. Finalized special sessions (deadline for changes and additions is February 1, 2013):

- Vibration from aero-acoustic loads, Matt Shaw
Experimental and theoretical analysis of vibration of structures subject to aero-acoustic loads, e.g. turbulence, modal and statistical analysis, fatigue analysis
- Computational structural acoustics, Jerry Rouse & Dave Burnett
- Ground-borne/structure-borne noise and vibration from transportation, Jim Nelson
 - Human response, sensitive equipment

Papers in this session will discuss the generation of, response to, and control of groundborne/structureborne noise and vibration from sources related to transportation. This will pertain to humans as well as vibration sensitive equipment.

- Structural health monitoring, Tribikram Kundu

Papers related to health monitoring of structures using ultrasonic and acoustic waves will be presented in this special session

- Human induced vibration in buildings, Ben Shafer (Eric Ungar)
Papers in this session will discuss they generation of human-induced vibration in buildings and design approaches to control it.
- Structural and acoustic response due to impulsive excitation, Marcel Remillieux
Papers in this session will discuss the structural and acoustic response of buildings and other structures to impulsive excitation
- Wheel/rail interaction, Jim Nelson, Hugh Saurenman

b. TPOM on July/August ??? 2013, TPOM Representative: Ben Shafer

c. Student paper awards: Benjamin Shafer

9. **Plan** special sessions for the 167th ASA Meeting, Providence, RI, May 5-9, 2014

a. Special Sessions:

- Undersea vehicle noise, Robert Koch
- Memorial session for Murray Strasberg, David Feit (joint with UW)
- Acoustics of sports, Matthew Shaw
- Sabih Hayek
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b. TPOM on January ??? 2014, TPOM Representative: (Chair's note: Robert Koch has volunteered to be TPOM Rep)

c. Student paper awards: Benjamin Shafer

10. Future meetings:

168th Meeting, Indianapolis, IN, October 27-31, 2014

169th Meeting, Pittsburgh, PA, May 18-22, 2015

170th Meeting, Jacksonville, FL, November 2-6,2015

11. Report from Medals and Awards Committee: Sabih Hayek
Gold Medal to Eric Ungar in 2011, working on next one.

12. Review and nominate ASA members to the Fellow status – report by Kai Ming Li
Kai Ming was not in attendance.

13. ASACOS Representative
Dean Capone is stepping down next year. Any volunteers to replace him?
Robert Koch. Thanks.

13.5 Jerry Ginsberg regarding Public Policy with wind turbines. Looking for people with interest or experience to help ASA. Talk to Nancy Timmerman.

14. Report from Student Council: Matthew Shaw

- Volunteer needed to take a student to the Society (Fellows) Luncheon and Lecture
 - Meet student at 11:45 Thursday outside Royal Exhibit Hall
 - Volunteer encouraged to attend the Student Reception, Wed 6:30 – 8:00 p.m., Barney Allis Lobby/Tea Room
- Wednesday Student Events
 - Student Forum (Wed., 6:00 – 6:30 PM, Bennie Moten)
 - Student Reception (Wed., 6:30 – 8:00 PM, Barney Allis)
 - Student Outing (Wed., 9:00 PM, ASA Jam)
- Check out our twitter feed for updates to student activities throughout the week (@ASASudents)
- ASA Student Council Mentor Award
 - Award nominations due early Spring 2013 -- watch student website
- Student Programs / Opportunities
 - Free meeting pre-registration for non-member undergraduate students
- Student Council Position Openings in Spring 2013 (get the word out now!):
 - Open positions: AA, AB, AO, EA, MU, PP, SP

15. Topics from the Technical Council Meeting

- Experience with KC apps and online itinerary planner: Positives? Negatives?
 - Worked well on iPhone but not on other platforms
 - Use browser rather than app, computer worked well, download to calendar
 - Add maps of hotel layout
 - Individual talks downloaded to calendar vs. full sessions
- Review of Graduate Programs Directory
- Need volunteers for Hands-on-Demos: Wednesday, 10-noon (students), 6:45-7:30 (Girl Scouts) Basie
- Do you like Acoustics Today? Echoes?
Like? AT-22, E-13 Don't like? AT-0, E-1 Don't care? AT-0, E-6 Should anything be changed? Why aren't they combined? Put Echoes as a section in AT. Electronic format only? 5 Keep hardcopy? 6.
- If all of JASA up to 2009 was available on USB drive for \$150 (including a search engine, Acoustics Today and Echoes), would people be interested? How is that different from what you can get online with your membership? Maybe 1 for interest.
- Feedback from ASA School 2012 attendees

16. Technical Initiatives for 2013

Contact Sean Wu about former initiatives.

Distinguished speakers – Nonmember, to defray travel costs – \$1000.

17. SAVTC webpage update

Propose a budget for a webpage overhaul?
ACOSOC standard website
Volunteer: Brian Anderson

18. New Business

Robert Koch need volunteer to substitute for session chair – David Feit.

Motion from Jerry Ginsberg (second by Sabih Hayek): At least one organizer from each technical session must be an ASA member. Put to vote: 18 for, 0 against, 0 abstain. Motion passed; James to take to Technical Council.

19. Adjourn