

TRB Annual Meeting



Purpose and Current Activities of the Acoustical Society of America

Bennett M. Brooks, PE Brooks Acoustics Corporation www.brooks-acoustics.com

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Acoustical Society of America (ASA)

- Founded in 1929
- Member society of American Institute of Physics
- Purpose: to increase and diffuse the knowledge of acoustics and promote its practical application

Acoustical Society of America (ASA)

Technical Research

Standards Administration

ASA Functions

- Technical Research
 - Technical committees
 - **Noise**
 - **Architectural acoustics**
 - Physical acoustics
 - **Psych & Phys acoustics**
 - **Speech Communication**

ASA Technical Research Advantages

- Society of many disciplines
- Cross "cultural" contacts
- Provides forum for pure research & applications
 - JASA, ARLO, Meeting Sessions
- Addresses all noise issues
 - Sources, Propagation, Effects

- Dec 2000 Newport Beach
 - ASA / NOISE-CON
 - Aircraft Noise
 - Community Noise
 - Hong Kong Airport Railway
 - Noise Barriers
 - Soundscapes
 - Combined Noise Source Effects

- June 2000 Atlanta
 - Educating the Public on the Perils of Overexposure to Noise
 - Noise and Vibration Effects and Noise Exposure Modeling

- Nov 1999 Columbus
 - Earth and Airborne Propagation
 - Noise and FICAN Preservation of Natural Quiet
 - Animal Bioacoustics Effects
 - Status of Noise Regulations
 - Classroom Acoustics

- Oct 1998 Norfolk
 - Community and Transportation
 Noise Issues
 - Propagation and Diffraction (PA)
 - Noise Effects of Airbag Deployment
 - Interior Cabin Noise (SA)
 - Sonic Boom Symposium

- June 2001 Chicago
 - Low frequency community noise effects
 - Measurement procedures in social studies for soundscapes and annoyance
 - Community noise ordinances
 - Motor vehicle interior noise
 - International noise initiatives

ASA Functions

- Standards Administration
 - ANSI accredited committees
 S1 Acoustics
 - S2 Mechanical Vibration and Shock
 - S3 Bioacoustics
 - S12 Noise

ANSI S12 Transportation Noise Related Standards

- S12.8 Barrier Insertion Loss
- S12.9 Environmental Sound Assessment (Parts 1 – 5)
- S12.14 Audible Outdoor Warning Devices
- S12.18 Outdoor Measurement SPL

ANSI S12 Noise Standards in Preparation

- WG 15 Outdoor Community Noise
- WG 31 Predicting Outdoor SPLs
- WG 37 Measuring Sleep Disturbance
- WG 40 Shipboard Noise
- WG 41 Model Community Noise Ordinance
- WG 42 Classroom Acoustics

Conclusions

- ASA thru TCN & ANSI S12
- Significant players in transportation noise research and policy development
- Continued activity with other technical societies and ISO
- Must work harder to keep US in leadership position