

Accredited Standards Committee on Bioacoustics - S3

Standards, specifications, methods of measurement and test, and terminology in the fields of psychological and physiological acoustics, including aspects of general acoustics, which pertain to biological safety, tolerance and comfort.

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1 S3/WG35 Audiometric Equipment
Active

Develop and maintain standards related to audiometric equipment (Audiometers, Aural Acoustic Impedance/Admittance Measurement) to ensure that hearing tests performed on an individual with different instruments yield equivalent results when used under comparable test conditions. Communication and liaison with related ANSI WGs. Liaison with the corresponding IEC and ISO standards groups. Coordination of the US vote on related or parallel international standards. Follow and report on current research and industry developments related to these standards.

Responsible for the following published standards:

- ANSI/ASA S3.6 - Specification for Audiometers
- ANSI/ASA S3.13 - Mechanical Coupler for Measurement of Bone Vibrators
- ANSI/ASA S3.21 - Methods for Manual Pure-Tone Threshold Audiometry
- ANSI/ASA S3.39 - Specifications for Instruments to Measure Aural Acoustic Impedance and Admittance (Aural Acoustic Immittance)

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2 S3/WG36 Subjective Speech Intelligibility Testing
Active

Develop and maintain standards for the subjective measurement of speech intelligibility over communication systems as affected by spectral, amplitude and temporal modification, and by noise. Communication and liaison with related ANSI WGs. Liaison with the corresponding IEC and ISO standards groups. Coordination of the US vote on related or parallel international standards. Follow and report on current research and industry developments related to this field.

Responsible for the following published standard:

- ANSI/ASA S3.2 - Method for Measuring the Intelligibility of Speech over Communication Systems

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3 S3/WG37 Couplers, Ear Simulators, Manikins, and Earphones

Active

Develop and maintain standards for couplers, ear simulators, manikins, and earphone measurement and calibration. Communication and liaison with ANSI WGs who use these standards. Liaison with the corresponding IEC and ISO standards groups. Follow and report on current research and industry developments related to these standards.

Responsible for the following published standards:

- ANSI/ASA S3.7 - Method for Coupler Calibration of Earphones
- ANSI/ASA S3.25 - An Occluded Ear Simulator
- ANSI/ASA S3.36-2012 Specification for a Manikin for Simulated in situ Airborne Acoustics Measurement

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4 S3/WG39 Human Exposure to Mechanical Vibration and Shock

Active

(parallel to ISO/TC 108/SC4) - Standardization in the field of shock, vibration and related biodynamic environments with regard to health, safety, performance and comfort criteria and guidelines regarding the effects of occupational and non-occupational exposures on the human population (environments of primary interest are: vibration, rotational oscillations, shock and impact transmitted to the whole-body or parts thereof). Preparation of standard terminology and characterization of the biodynamic properties of humans with and without support and restraint devices by means of biodynamic models or analogues is also included as a basis for the description of the physical, behavioral and physiological effects of the mechanical environments under consideration.

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5 S3/WG48 Hearing Aid Measurement

Active

Develop and maintain standards for the objective measurement of hearing aids. Communication and liaison with related ANSI WGs. Liaison with the corresponding IEC and standards group. Coordination of the US vote on related or parallel international standards. Follow and report on current research and industry developments in this field.

Responsible for the following published standards:

- ANSI/ASA S3.22 - Specification of Hearing Aid Characteristics
- ANSI/ASA S3.35 - Method of Measurement of Performance Characteristics of Hearing Aids Under Simulated Real-Ear Working Conditions
- ANSI/ASA S3.37 - Preferred Earhook Nozzle Thread for Postauricular Hearing Aids
- ANSI/ASA S3.42-Part 1 - Testing Hearing Aids with a Broad-Band Noise Signal

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6 S3/WG51 Auditory Magnitudes

Active

Develop and maintain standards for calculating the loudness of steady-state, broadband noises with the listener in either a free or diffuse sound field. Communication and liaison with related ANSI WGs. Liaison with the corresponding IEC and ISO standard groups. Coordination of the US vote on related or parallel international standards. Follow and report on current research and industry developments in this field.

Responsible for the following published standard:

- ANSI/ASA S3.4 - Procedure for the Computation of Loudness of Steady Sounds

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7 S3/WG56 Criteria for Background Noise for Audiometric Testing
Active

Develop and maintain standards for maximum tolerable background noise levels during audiometric tests. Communication and liaison with related ANSI WGs. Liaison with the corresponding IEC and ISO standards groups. Coordination of the US vote on international standards in this field. Follow and report on current research and industry developments related to these standards.

Responsible for the following published standard:

- ANSI/ASA S3.1 - Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms

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8 S3/WG58 Hearing Conservation Criteria
Active

Develop and maintain standards for hearing conservation criteria. Liaison with the corresponding IEC and ISO standards groups. Coordination of the US vote on international standards in this field.

Responsible for the following published standards:

Responsible for the following published standard:

- ANSI S3.44 - Determination of Occupational Noise Exposure and Estimation of Noise - Induced Hearing Impairment

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9 S3/WG62 Impulse Noise with Respect to Hearing Hazard
Active

Develop and maintain standards and/or technical reports for the determination of human exposure and estimation of induced hearing impairment due to impulsive noise. Communication and liaison with related ANSI WGs. Liaison with the corresponding IEC and ISO standards groups. Coordination of the US vote on international standards in this field. Follow and report on current research and industry developments in this field.

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10 S3/WG72 Measurement of Auditory Evoked Potentials

Active

Develop and maintain standards for the measurement of auditory evoked potentials, acoustic stimuli for these tests, and calibration of the associated instrumentation. Communication and liaison with related ANSI WGs. Liaison with corresponding I and ISO standards groups. Coordination of the US vote on international standards in this field. Follow and report on current research and industry developments related to these standards.

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11 S3/WG73 Bioacoustical Terminology

Active

Develop and maintain the bioacoustical terminology standard. Communication and liaison with ANSI WGs that use this standard. Liaison with corresponding IEC and ISO standards groups.

Responsible for the following published standard:

- ANSI/ASA S3.20 - Bioacoustical Terminology

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12 S3/WG79 Methods for Calculation of the Speech Intelligibility Index

Active

Develop and maintain standards for the objective calculation of Speech Intelligibility Index. Communication and liaison with related ANSI WGs. Liaison with any corresponding IEC and ISO standards groups. Coordination of the US vote on related or parallel international standards. Follow and report on current research and industry developments related to this field.

Responsible for the following published standard:

- ANSI/ASA S3.5 - Methods for the Calculation of the Speech Intelligibility Index

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13 S3/WG81 Hearing Assistance Technologies

Active

Develop and maintain standards for the measurement of assistive listening devices. Communication and liaison with related A WGs. Liaison with any corresponding IEC and ISO standards groups. Coordination of the US vote on international standards in this field. Follow and report on current research and industry developments related to these standards.

Responsible for the following published standard:

- BSR/ASA S3.43 - Specification of Performance Measurement of Hearing Assistance Devices/Systems

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14 S3/WG83 Sound Field Audiometry

Active

Develop and maintain standards for sound-field audiometry, related instrumentation, specifications for stimuli, and reference threshold values. Communication and liaison with related ANSI WGs. Liaison with any corresponding IEC and ISO standards groups. Coordination of the US vote on international standards in this field. Follow and report on current research and industry developments related to these standards.

Chair, S3/WG83 T.R. Letowski

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15 S3/WG84 Otoacoustic Emissions

Active

Develop and maintain a standard for the measurement of otoacoustic emissions. Communication and liaison with related ANSI WGs. Liaison with any corresponding IEC and ISO standards groups. Coordination of the US vote on international standards in this field. Follow and report on current research and industry developments related to these standards.

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16 S3/WG88 Audible Emergency Evacuation Signals

Active

Develop and maintain standards for Audible Emergency Evacuation Signals. Communication and liaison with related ANSI WG Liaison with any corresponding IEC and ISO standards groups. Coordination of the US vote on related or parallel international standards. Follow and report on current research and industry developments in this field.

Responsible for the following published standards:

- ANSI S3.41 - Audible Emergency Evacuation Signal

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17 S3/WG91 Text-to-Speech Synthesis Systems

Active

Develop and maintain standards related to text-to-speech synthesis systems and the evaluation of those systems. Communication and liaison with related ANSI WGs. Liaison with any corresponding IEC and ISO standards groups. Coordination of the US vote on international standards in this field. Follow and report on current research and industry developments related to these standards.

Responsible for the following published standard:

- ANSI/ASA S3.50 - Method for Evaluation of the Intelligibility of Text-to-Speech Synthesis Systems

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18 S3/WG94 Localization Standards

Active

Develop and maintain standards describing methods of measuring localization performance with and without head-worn devices such as hearing protectors, helmets, and transaural headphones.

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19 S3/ADV1 S3 Advisory Planning Committee
Active

Be cognizant of standards needs within the scope of the Committee, and organize those needs in accordance with priority, an other relevant factors, into a coherent three-year plan for Committee activity. This three-year plan should include standards which need updating, standards having international work items or requiring coordination with international standards, and standards requiring timely review (reaffirmations, revisions, withdrawals, etc.), as well as the priority of new standards needs. The plan of action should be developed with attention to (1) the overall Committee scope, (2) its technological needs, (3) the relation of national to international standardization, (4) the rate of development of new standards, and (5) the timeliness of preparation and/or revisions of standards.

The following S3 Standard is not associated with any active WG and is monitored by the Advisory Planning Committee:

- ANSI/ASA S3.45 - Procedures for Testing Basic Vestibular Function

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