

Accredited Standards Committee on Acoustics - S1

Standards, specifications, methods of measurement and test, and terminology in the field of physical acoustics including architectural acoustics, electroacoustics, sonics and ultrasonics, and underwater sound, but excluding those aspects which pertain to biological safety, tolerances and comfort.

Chair

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1 S1/WG01 Standard Microphones and their Calibration

Active

Develop and maintain standards for measurement microphones and methods of microphone calibration (parallel with IEC TC 29/WG5). Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant IEC or IS standards committees.

Responsible for the following published standards:

- ANSI/ASA S1.15, Part 1 - Measurement Microphones - Part 1: Specifications for Laboratory Standard Microphones
- ANSI/ASA S1.15, Part 2 - Measurement Microphones - Part 2: Primary Method for Calibration of Laboratory Standard Microphones by the Reciprocity Technique

Chair, S1/WG01

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2 S1/WG04 Measurement of Sound Pressure Levels in Air

Active

Develop and maintain standards for the measurement of sound pressure levels in air. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant IEC or ISO standards committees.

Responsible for the following published standards:

- ANSI/ASA S1.13 - Measurement of Sound Pressure Levels in Air

Chair, S1/WG04

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3 S1/WG05 Band Filter Sets
Active

Develop and maintain standards for the specification and performance characteristics of analog and digital fractional octave bandpass filter sets. This includes requirements and procedures to test and verify these performance characteristics. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant IEC or ISO standards committees.

Responsible for the following published standards:

- ANSI/ASA S1.11, Part 1 (IEC 61260-1) - Octave Band and Fractional Octave Band Filters - Part 1: Specifications

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4 S1/WG07 Personal Noise Dosimeters
Active

Develop and maintain standards defining the specifications for performance characteristics of personal noise dosimeters corresponding to requirements of U.S. regulatory agencies. Monitor regulatory requirements. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant IEC or ISO standards committees.

Responsible for the following published standards:

- ANSI/ASA S1.25 - Specification For Personal Noise Dosimeters

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5 S1/WG09 Calibration of Underwater Electroacoustic Transducers
Active

Revision of ANSI S1.20-1988 Procedures for Calibration of Underwater Electroacoustic Transducers

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6 S1/WG15 Noise Canceling Microphones

Active

Develop and maintain standards for defining directional (noise discriminating) and noise canceling microphones and microphone systems and describing procedures for measuring their performance in a noise field. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant IEC, ISO, ITU, TIA and IEEE standards committees.

Responsible for the following published standards:

- ANSI/ASA S1.16 - Method for Measuring the Performance of Noise Discriminating and Noise Canceling Microphones

Chair, S1/WG15

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7 S1/WG19 Characterization of Windscreen Acoustical Performance

Active

Develop and maintain a test method to characterize at specific air speeds and directions the effectiveness of a microphone windscreen in reducing noise generated at a microphone due to turbulence created by airflow over a microphone.

Responsible for the following published standards:

- ANSI/ASA S1.17/Part 1 - Microphone Windscreens-Part 1: Test Procedures for Measurements of Insertion Loss in Still Air

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8 S1/WG20 Ground Impedance and Attenuation of Sound Due to the Ground

Active

Develop and maintain standards and recommended procedures and instrumentation for the measurement of ground impedance in the context of characterizing the attenuation of sound propagating close to the ground. Procedures are intended to cover a wide variety of natural ground surfaces outdoors. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant IEC or ISO standards committees.

Responsible for the following published standards:

- ANSI/ASA S1.18 - Method for Determining the Acoustic Impedance of Ground Surfaces

Chair, S1/WG20

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9 S1/WG29 Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurement
Active

Develop and maintain standards for preferred frequencies, frequency levels, and band numbers for acoustical measurements. Responsible for the following published standards:

- ANSI/ASA S1.6 - Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements

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10 S1/WG30 Reference Quantities
Active

Develop and maintain standards for reference quantities for acoustical levels. Review S1.8-1989, perhaps revise, and incorporate, if necessary, vibratory levels to align with ISO 1683-2015.

Responsible for the following published standards:

- ANSI/ASA S1.8 - Reference Quantities for Acoustical Levels

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11 S1/WG31 Materials for Electro-Mechanical Transduction
Active

Develop and maintain a new standard for materials used for transduction of energy between mechanical and electrical domain. Maintain communication and liaison with related ANSI WGs, relevant US regulatory agencies and relevant IEC or ISO standard groups.

Chair, S1/WG31

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12 S1/ADV1 S1 Advisory Planning Committee
Active

Be cognizant of standards needs within the scope of the Committee, and organize those needs in accordance with priority, and other relevant factors, into a coherent three-year plan for Committee activity. This three-year plan for the preparation of standards should include those which need updating, having regard to the international work items and standards, and the need for timely review (reaffirmations, revisions, withdrawals, etc.) of all national standards, and 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 the preparation of revisions of standards.

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