

## Accredited Standards Committee on Acoustics - S 1

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.

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### **1 S 1/WG01 Standard Microphones and their Calibration**

*Active*

(Parallel to IEC/TC29/WG5 and IEC.TC 28/WG 8) – Revision of S1.10-1966(R 1986) Method for the Calibration of Microphones and S1.12-1967 (W 2001) Specification for Laboratory Standard Microphones

#### ***Chair, S 1/WG01***

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### **2 S 1/WG04 Measurement of Sound Pressure Levels in Air**

*Active*

To revise the current Annex A: Identification and evaluation of prominent discrete tones (Character of the sound) to bring it into consistency with the more up-to-date prominent tone procedures recently published in ECMA-74.

#### ***Vice-Chair, S 1/WG04***

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### **3 S 1/WG05 Band Filter Sets**

*Active*

The scope of the Working Group includes specifications for the performance characteristics of bandpass filters that are incorporated in a set of filters. The filters may have any bandwidth that is a fraction of an octave including 1/1 octave band filters and may utilize analog or digital design implementation. The filter set may be an integral part of a portable instrument designed to be operated under a wide range of environmental conditions or it may be part of a spectrum analyzer that is intended to operate only under the controlled environmental conditions of a laboratory. The scope of the Working Group also includes requirements for procedures to test and verify the performance characteristics of a set of bandpass filters.

#### ***Chair, S 1/WG05***

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**4 S 1/WG09 Calibration of Underwater Electroacoustic Transducers**

*Active*

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

**Chair, S 1/WG09**

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**5 S 1/WG17 Sound Level Meters and Integrating Sound Level Meters**

*Active*

To develop a standard for specifying exponential and integrating averaging sound level meters.

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**6 S 1/WG19 Insertion Loss of Windscreens**

*Active*

To develop a test method that characterizes windscreens so that users can know the effect of windscreens on measurements, including self noise. Specifically to consider screens that fit commercial (1/2" and 1/4") measuring microphones, commonly used for outdoor and indoor measurements in conditions with wind. Also, screens for intensity probes would be considered.

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**7 S 1/WG20 Ground Impedance (Measurement of Ground Impedance and Attenuation of Sound due to the Ground)**

*Active*

i) Measurement of Ground Impedance - To develop a standard describing recommended procedures to characterize and the instrumentation to measure the acoustic properties of a wide variety of natural ground surfaces outdoors.

ii) Attenuation of Sound due to the Ground - To develop a standard describing recommended procedures to account for the attenuation of sound propagating in the presence of the ground.

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**8 S 1/WG22 Bubble Detection and Cavitation Monitoring**

*Active*

Equipment and techniques are to be described and compared (A) for detection and characterization of small gas-filled cavities or bubbles, especially, those which may serve as sites for cavitation and (B) for monitoring cavitation activity. For purposes (A), optical, electrical and acoustical techniques are employed. For purposes (B), physical, chemical or biological effects produced by the cavitation are assessed. Terminology is to be defined. Capabilities and limitations of the methods are to be discussed for various applications.

**Chair, S 1/WG22**

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**9 S 1/WG26 High Frequency Calibration of the Pressure Sensitivity of Microphones**

*Active*

To develop a new American National Standard describing the high frequency calibration of the pressure sensitivity of microphones by means of measurements in the free field. This will include test set-up in both anechoic chamber and environmental conditions, specifications on acoustic drivers, test procedure, recording data, evaluation procedure and uncertainty analysis.

**Chair, S 1/WG26**

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**10 S 1/WG27 Acoustical Terminology**

*Active*

To review ANSI S1.1-1994 American National Standard Acoustical Terminology and draft a revision as needed to update the existing terminology, add new terminology, and correct any errors that are identified.

**Chair, S 1/WG27**

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