## ACOUSTICAL STANDARDS NEWS

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American National Standards (ANSI Standards) developed by Accredited Standards Committees S1, S2, S3, and S12 in the areas of acoustics, mechanical vibration and shock, bioacoustics, and noise, respectively, are published by the Acoustical Society of America (ASA) through the American Institute of Physics (AIP). In addition to these standards, ASA publishes Catalogs of Acoustical Standards, both National and International. To receive copies of the latest Standards Catalogs, please contact Avril Brenig.

Comments are welcomed on all material in Acoustical Standards News.

*This Acoustical Standards News section in JASA, as well as the National and International Catalogs of Acoustical Standards, flyers on the draft international documents available, and other information on the Standards Program of the Acoustical Society of America, are available via the ASA home page: http://www.asa.aip.org.*

### Standards Meetings Calendar—National

The next meetings of the Accredited Standards Committees for national standards development, the review of International Standards, and planning of future meetings are scheduled to be held during the 139th ASA Meeting at the Western Peachtree Plaza Hotel, Atlanta, GA, 30 May–3 June 2000. Meetings of the Accredited Standards Committees are open to the public for participation. Organizations and individuals with expertise that may enhance the acoustical standards effort are encouraged to participate.

- **Tuesday, 30 May 2000, 7:00 p.m. to 10:00 p.m.**  
  ASA Committee on Standards (ASACOS) Steering
- **Wednesday, 31 May 2000, 9:00 a.m. to 11:30 a.m.**  
  ASA Committee on Standards (ASACOS). Meeting of the Committee that directs the Acoustical Standards Program of the Acoustical Society.

### American National Standards Institute (ANSI) Calendar

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<td>Executive Standards Council (ExSC) Meeting &amp; Appeals: 3 days, Finance Committee</td>
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<td>Company Member Council Executive Committee (CMCEC) Meeting (Day 1 of 2)</td>
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<td>20 June</td>
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<td>20 July</td>
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A listing of the Accredited Standards Committees, their Working Groups, their chairs (listed in parentheses) and published standards, Chair and Vice Chair of the ASA Committees on Standards (ASACOS), and the U. S. Technical Advisory Group (TAG) Chairs for the International Standards Committees, are given here for reference:

### Accredited Standards Committee on Acoustics, S1

(G. S. K. Wong, Chair; T. Kuemmel, Vice Chair)

**Scope:** 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, tolerance and comfort.
**S1 Working Groups**

S1/Advisory—Advisory Planning Committee to S1 (T. Kuemmel);
S1/WG1—Standard Microphones and their Calibration (V. Nedzelnitsky);
S1/WG5—Band Filter Set (J. Pope);
S1/WG15—Noise Canceling Microphones (R. L. McKinley);
S1/WG16—FFT Acoustical Analyzers (R. J. Peppin, Chair; L. Wu, Vice Chair);
S1/WG17—Sound Level Meters and Integrating Sound Level Meters (T. J. Kueimmel);
S1/WG19—Insertion Loss of Windscreens (R. J. Peppin);
S1/WG20—Ground Impedance (Co-Chairs: K. Attenborough and J. Sabatier);
S1/WG21—Electromagnetic Susceptibility (EMS) of Acoustical Instruments (J. Seiler);
S1/WG22—Cavitation Detecting and Monitoring (W. L. Nyborg);
S1/WG23—Underwater Acoustics (F. Fisher);
S1/WG24—Design Response of Weighting Networks for Acoustical Measurements (G. S. K. Wong);
S1/WG25—Specification for Acoustical Calibrators (M. P. Valoski).

**S1 STANDARDS ON ACOUSTICS**

ANSI S1.4A-1985 (R1997) Amendment to ANSI S1.4-1983.
ANSI S1.9-1996 American National Standard Instruments for the measurement of Sound Intensity.

**Accredited Standards Committee on Mechanical Vibration and Shock, S2**

(D. J. Evans, Chair; R. F. Taddeo, Vice Chair)

**Scope:** Standards, specifications, methods of measurement and test, and terminology in the field of mechanical vibration and shock, and condition monitoring and diagnostics of machines, but excluding those aspects which pertain to biological safety, tolerance, and comfort.

**S2 Working Groups**

S2/Advisory—Advisory Planning Committee to S2 (R. F. Taddeo);
S2/WG3(S2)—Human Exposure to Mechanical Vibration and Shock (D. Reynolds, Chair; H. E. von Gierke, Vice Chair);
S2/WG5—Atmospheric Blast Effects (J. W. Reed, Chair; J. H. Keefe, Vice Chair);
S2/WG6—Balancing Technology (R. Mehta, Chair; K. Won, Vice Chair);
S2/WG7—Measurement and Evaluation of Machinery Vibration (P. H. Maedel);
S2/WG7—Measurement and Evaluation of Ship Vibration (A. F. Kilcullen, Chair; P. C. Shang, Vice Chair);
S2/WG78—Measurement and Evaluation of Structural Vibration (C. G. Gordon);
S2/WG79—Characterization of the Dynamic Mechanical Properties of Viscoelastic Polymers (W. Madigosky, Chair; B. Hartmann, Vice Chair);
S2/WG80—Vibration and Shock Terminology (D. F. Muster);
S2/WG81—Use and Calibration of Vibration and Shock Measuring Instruments (D. J. Evans, B. E. Douglas);
S2/WG88—Measurement and Evaluation of Machine Tool Vibration (J. H. Pyne);
S2/WG89—Parallel to ISO/TC 108/SC5 Condition Monitor and Diagnostics of Machines (D. F. Muster);
S2/WG90—Parallel to ISO/TC 108/SC6 Vibration and Shock Generating Equipment (G. Booth);
S2/WG92—Training Accreditation in the Field of Condition Monitoring and Diagnostics of Machines (parallel to ISO/TC 108/SC5/WG7) (R. Edsleman);
S2/WG93—Condition Monitoring and Diagnostics of Power Transformers (parallel to ISO/TC 108/SC5/ACD) (T. H. Crum);
S2/WG94—Life Usage Monitoring (ISO/TC 108/SC5/WG9) (P. Gatlin);
S2/WG95—Survey of Techniques used for the Purpose of Condition Monitoring (parallel to ISO/TC 108/SC5/WG10) (Vacant);

**S2 STANDARDS ON MECHANICAL VIBRATION AND SHOCK**

ANSI S2.5-1962 (R1997) American National Standard Recommendations for Specifying the Performance of Vibration Machines.


ANSI S2.60-1987 Balancing Machines—Enclosures and Other Safety Measures.


Accredited Standards Committee on Bioacoustics, S3

(R. F. Burka, Chair; J. Franks, Vice Chair)

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

S3 Working Groups

S3/Advisory—Advisory Planning Committee to S3 (J. Franks);
S3/WG35—Audiometers (R. L. Grason);
S3/WG36—Speech Intelligibility (R. Schlauch);
S3/WG37—Coupler Calibration of Earphones (B. Kruger);
S3/WG39(S2)—Human Exposure to Mechanical Vibration and Shock—Parallel to ISO/TC 108/SC4 (D. D. Reynolds, H. E. von Gerke, Vice Chair);
S3/WG43—Method for Calibration of Bone Conduction Vibrator (J. Durrant);
S3/WG48—Hearing Aids (D. A. Preves);
S3/WG56—Criteria for Background Noise for Audiometric Testing (J. Frank);
S3/WG58—Hearing Conservation Criteria (D. L. Johnson);
S3/WG59—Measurement of Speech Levels (H. Levitt);
S3/WG60—Measurement of Acoustic Impedance and Admittance of the Ear (D. J. Lilly);
S3/WG62—Impulse Noise with Respect to Hearing Hazard (D. L. Johnson);
S3/WG67—Manikins (M. D. Burkhard);
S3/WG72—Measurement of Auditory Evoked Potentials (R. F. Burkhard);
S3/WG76—Computerized Audiology (A. J. Militch);
S3/WG78—Thresholds (W. A. Yost);
S3/WG79—Method for Calculation of the Speech Intelligibility Index (C. V. Pavlovic);
S3/WG81—Hearing Assistance Technologies (M. K. Wynne);
S3/WG82—Basic Vestibular Function Test Battery (C. Wall III);
S3/WG83—Sound Field Audiology (T. R. Letowski);
S3/WG84—Otoacoustic Emission (G. R. Long);
S3/WG85—Hearing Loss and Exposure (R. A. Dobie);
S3/WG86—Audiometric Data Structures (G. J. Frye and B. Kruger, Co-Chairs);
S3/WG87—Human Response to Repetitive Mechanical Shock (N. Alem);
S3/WG88—Standard Audible Emergency Evacuation and other Signals (L. Mande);
S3/WG89—Spatial Audiology in Real and Virtual Environments (J. Beising);

S3 Liaison Working Group:

S3/L-1 U.S. TAG Liaison to IEC/TC 87 Ultrasonics (W. L. Nyborg).

S3 STANDARDS ON BIOACOUSTICS


ANSI S3.5-1997 American National Standard Methods for the Calculation of the Speech Intelligibility Index.


S12 Working Groups

S12/Advisory—Advisory Planning Committee to S12 (R. D. Hellweg); S12/WG3—Measurement of Noise from Office and Data Processing Equipment (R. Lotz); S12/WG11—Hearing Protector Attenuation and Performance (E. H. Berger); S12/WG12—Evaluation of Hearing Conservation Programs (J. D. Royster, Chair; E. H. Berger, Vice Chair); S12/WG15—Measurement and Evaluation of Outdoor Community Noise (P. D. Schomer); S12/WG18—Criteria for Room Noise (R. J. Peppin); S12/WG23—Determination of Sound Power (R. J. Peppin and B. Brooks, Co-Chairs); S12/WG31—Predicting Sound Pressure Levels Outdoors (M. J. White); S12/WG32—Revision of ANSI S12.7-1986 Methods for Measurement of Impulse Noise (A. H. Marsh); S12/WG33—Revision of ANSI S5.1-1971 Test Code for the Measurement of Sound from Pneumatic Equipment (D. Bookshar); S12/WG 34—Methodology for Hearing Conservation Program (R. Goodwin); S12/WG35—Method for the Selection of Hearing Protectors that Optimize the Ability to Communicate (D. Byrne and K. L. Michael, Co-Chairs); S12/WG36—Development of Methods for Using Sound Quality (G. L. Ebbit and P. Davies, Co-Chairs); S12/WG37—Measuring Sleep Disturbance due to Noise (K. S. Pearsons); 12/WG38—Noise Labeling in Products (R. D. Hellweg and J. Pope, Co-Chairs); 12/WG39—Measurement of the Noise Attenuation of Active and/or Passive Level Dependent Hearing Protective Devices (D. Gauger); 12/WG40—Measurement of the Noise Aboard Ships (S. Fisher, Chair; A. F. Kilcullen, Vice Chair); 12/WG41—Model Community Noise Ordinances (C. Caccavari, Chair; M. Alexander, Vice Chair); 12/WG42—Classroom Acoustics (D. Lubman and L. Sutherland, Co-Chairs).

S12 Liaison Working Groups:

S12/L-1 IEEE 85 Committee for TAG Liaison—Noise Emitted by Rotating Electrical Machines (Parallel to ISO/TC 43/SC 1/WG 13) (R. G. Bartheld); S12/L-2 Measurement of Noise from Pneumatic Compressors Tools and Machines (Parallel to ISO/TC 43/SC 1/WG 9) (Vacant); S12/L-3 SAE Committee for TAG Liaison on Measurement and Evaluation of Motor Vehicle Noise (parallel to ISO/TC 43/SC 1/WG 8) (R. F. Schumacher); S12/L-4 SAE Committee A-21 for TAG Liaison on Measurement and Evaluation of Aircraft Noise (J. Brooks); S12/L-5 ASTM E-33 on Environmental Acoustics (to include activities of ASTM E33.06 on Building Acoustics, parallel to ISO/TC 43/SC 2 and ASTM E33.09 on Community Noise) (K. F. Roy); S12/L-6 SAE Construction–Agricultural Sound Level Committee (W. H. Flint); S12/L-7 SAE Specialized Vehicle and Equipment Sound Level (T. Disch); S12/L-8 ASTM PTC No. 36 Measurement of Industrial Sound (R. A. Putnam, Chair; B. M. Brooks, Vice Chair).

S12 STANDARDS ON NOISE


ASA Committee on Standards (ASACOS)

ASACOS (D. L. Johnson, Chair and ASA Standards Director; P. D. Schomer, ASACOS Vice Chair).

U. S. Technical Advisory Groups (TAGS) for International Standards Committees:

ISO/TC 43 Acoustics, ISO/TC 43/SC1 Noise (P. D. Schomer, U.S. TAG Chair; H. E. von Gierke, U.S. TAG Vice Chair);

ISO/TC 108 Mechanical Vibration and Shock (J. Evans, U.S. TAG Chair);

ISO/TC 108/SC1 Noise, including Balancing Machines (R. H. Mehta, U.S. TAG Chair; K. Won, U.S. TAG Vice Chair);

ISO/TC 108/SC2 Measurement and Evaluation of Mechanical Vibration and Shock as Applied to Machines, Vehicles and Structures (A. F. Kilcullen, U.S. TAG Chair);

ISO/TC 108/SC3 Use and Calibration of Vibration and Shock Measuring Instruments (D. J. Evans, U.S. Tag Chair);

ISO/TC 108/SC5 Condition Monitoring and Diagnostic Machines (D. J. Vendittis, U.S. TAG Chair, R. F. Taddeo, U.S. Tag Vice Chair);

ISO/TC 108/SC6 Vibration and Shock Generating Systems (G. Booth, U.S. TAG Chair);


Standards News from the United States

(Partially derived from ANSI Reporter, and ANSI Standards Action, with appreciation)

Meetings of International Standards Committees

The following international standards committees are scheduled to meet in Newport Beach, CA, in conjunction with the 140th ASA Meeting:


American National Standards Call for Comment on Proposals Listed

This section solicits comments on proposed new American National Standards and on proposals to revise, reaffirm, or withdraw approval of existing standards. The dates listed in parentheses are for information only.

ACOUSTICS


Defines methods for evaluating the effectiveness of hearing conservation programs and for preventing occupational noise-induced hearing loss by using techniques for audiometric data base analysis. The rationale is given for using the variability of threshold measurements in annual monitoring audiograms as the basis for judging effectiveness.

Final actions on American National Standards

ANSI’s Board of Standards Review has taken the final action indicated on the standards listed below.

ISO Standards

ACOUSTICS (TC 43)


ASTM Standards

ACOUSTICS


Standards News from Abroad

(Partially derived from ANSI Reporter and ANSI Standards Action, with appreciation)

Newly published ISO and IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO—the International Organization for Standardization, and IEC—the International Electrotechnical Commission. They are all available from ANSI, the U.S. member of ISO and IEC and the sole source in the United States of ISO and IEC publications. Catalogs listing several thousand current ISO and IEC standards are also available from ANSI.

ISO Standards

ACOUSTICS (TC 43)


IEC Standards

AUDIO, VIDEO, AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)

IEC 61595-3 Ed. 1.0 b: 1999. Multichannel digital audio tape recorder (DATR), reel-to-reel system, for professional use—Part 3: 24-bit operation for 16-bit media.

ISO Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) are considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO and IEC members for comment and vote. The final dates for offering comments, listed in parentheses, are for information only. Copies of these documents are available from ANSI.
ACOUSTICS (TC 43)

ISO/DIS 5129. Acoustics—Measurement of sound pressure levels in the interior of aircraft during flight (11 December)

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO/DIS 6954. Mechanical vibration—Guidelines for the measurement, reporting, and evaluation of vibration in merchant ships (4 December 1999)

IEC Draft Standards

AUDIO, VIDEO, AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)

100C/246/FDIS, IEC 60958-1: Digital audio interface—Part 1: General (30 September 1999)
100C/248/FDIS, IEC 60958-3: Digital audio interface—Part 3: Consumer applications (30 September 1999)
100C/249/FDIS, IEC 60958-4: Digital audio interface—Part 4: Professional applications (30 September 1999)