ACOUSTICAL STANDARDS NEWS

Susan B. Blaeser, Standards Manager
Standards Secretariat, Acoustical Society of America, Suite 1N01, 2 Huntington Quadrangle, Melville, New York 11747-4502 [Tel.: (516) 576-2490; Fax: (516) 576-2296; e-mail: asastds@aip.org]

George S. K. Wong
Acoustical Standards, Institute for National Measurement Standards, National Research Council, Ottawa, Ontario K1A 0R6, Canada [Tel.: (613) 993-6159; Fax: (613) 990-8765; e-mail: george.wong@nrc.ca]

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 Susan B. Blaeser.

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 142nd ASA Meeting at the Greater Fort Lauderdale Broward County Convention Center, Ft. Lauderdale, FL, 3–7 December 2001. 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.

• Monday, 3 December 2001
ASACOS Steering Committee

• Tuesday, 4 December 2001
ASA Committee on Standards (ASACOS). Meeting of the Committee that directs the Standards Program of the Acoustical Society

• Wednesday, 5 December 2001

• Thursday, 6 December 2001
Standards Committee Plenary Group Meeting (PL)
To discuss national and international items relevant to Accredited Standards Committees S1, S2, S3, and S12, plus a general review of the international standardization (U.S. Technical Advisory Group—TAG) activities (ISO/TC 43 Acoustics, ISO/TC 108 Mechanical Vibration and Shock, and respective Subcommittees, and IEC/TC 29 Electroacoustics)

• Thursday, 6 December 2001
Accredited Standards Committee S12 on Noise (also Technical Advisory Group for ISO/TC 43/SC 1—Noise)

American National Standards Institute (ANSI) Calendar

6 July 2001
• ANSI Caucus Luncheon
26 July 2001
• Management Strategic Planning Meeting with Board Executive Committee
27 July 2001
• Executive Committee Meeting of the Board of Directors
31 July 2001
• EMS Meeting
2 August 2001
• ANSI BSR Meeting (2 days)
• BCCA
3 August 2001
• ANSI Caucus Luncheon
15 August 2001
• Course: Participate Effectively
16 August 2001
• Course: Leadership Training
23 August 2001
• Finance Committee Meeting of the Board of Directors
27 August 2001
• ANSI International Committee (IC)
28 August 2001
• Board of Directors Meetings
5 September 2001
• ANSI Health Informatics Standard Board Meeting (3 days)
• ANSI Executive Standards Council Meeting (3 days)
• ANSI International Forum (AIF)
7 September 2001
• ANSI Caucus Luncheon
11 September 2001
• Course: The American Way
• ANSI Accreditation Committee Meeting

12 September 2001
• Course: Strengthening the U.S. Voice in International Standardization

13 September 2001
• Course: Taking the Secret Out of Secretariat

14 September 2001
• Course: Author, artisan, and statesman
• ISO/TMB (Day 1)

15 September 2001
• ISO/TMB (Day 2)

18 September 2001
• ISO General Assembly (Day 1)
• JOB Teleconference

19 September 2001
• ISO General Assembly (Day 2)

20 September 2001
• ISO Council

24 September 2001
• USNC Council Meeting

20 September 2001
• ISO Council

19 September 2001
• ISO General Assembly

18 September 2001
• ANSI Government Member Council

15 September 2001
• ANSI Government Member Council

14 September 2001
• ISO/TMB

12 September 2001
• ANSI Accreditation Committee Meeting

11 September 2001
• ANSI Accreditation Committee Meeting

8 October 2001
• ANSI Caucus Meeting

8 October 2001
• Course: For the Good of the People

9 October 2001
• ANSI Government Member Council (GMC)
• Annual Awards Banquet and Ceremony
• ANSI Organizational Member Council (OMC)
• ANSI Company Member Council Executive Committee (CMCEC)

10 October 2001
• ANSI Annual Conference (Day 1)
• World Standards Day Banquet
• ANSI Annual Business Meeting

11 October 2001
• ANSI Annual Conference (Day 2)
• EMS Meeting

12 October 2001
• Course: The American Way

13 October 2001
• 65th IEC General Meeting (7 Days)

15 October 2001
• IEC Committee of Action Meeting

16 October 2001
• IEC Conformity Assessment Board

19 October 2001
• IEC Council

1 November 2001
• ANSI BSR Meeting (2 days)

2 November 2001
• ANSI Caucus Luncheon

8 November 2001
• Executive Committee Meeting of Board of Directors

3 December 2001
• Course: Participate Effectively

4 December 2001
• Course: Leadership Training
• JOB Meeting

5 December 2001
• Health Informatics Standards Board
• Course: Strengthening the U.S. Voice in International Standardization

6 December 2001
• ANSI Accreditation Committee Meeting
• Course: Taking the Secret Out of Secretariat

7 December 2001
• ANSI Caucus Luncheon

8 December 2001
• ISO/IEC JTC 1/SC 34 Plenary and WG Meetings

14 December 2001
• Board of Directors Meeting

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 Cancelling 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. Kuemmel);
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 (R 1997) Amendment to ANSI S1.4-1983.

American National Standard Methods of Measurement of Sound Intensity.


Accredited Standards Committee on Mechanical Vibration and Shock, S2

(R. J. Peppin, Chair; D. J. Evans, Vice Chair)

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

**S2 Working Groups**

S2/WG1—S2 Advisory Planning Committee (D. J. Evans);

S2/WG2—Terminology and Nomenclature in the Field of Mechanical Vibration and Shock and Condition Monitoring and Diagnostics of Machines (D. J. Evans);

S2/WG3—Signal-Processing Methods (Parallel to ISO/TC 108/WD26 and ISO/TC 108/WG27) (D. J. Evans);

S2/WG4—Characterization of the Dynamic Mechanical Properties of Viscoelastic Polymers (W. M. Madigosky);

S2/WG5—Use and Calibration of Vibration and Shock Measuring Instruments (D. J. Evans, Chair; B. E. Douglas, Vice Chair);

S2/WG6—Vibration and Shock Actuators (Parallel to ISO/TC 108/SC6) (G. Booth);

S2/WG7—Acquisition of Mechanical Vibration and Shock Measurement Data (B. E. Douglas);

S2/WG8—Analysis Methods of Structural Dynamics (B. E. Douglas);

S2/WG9—Training and Accreditation (R. Eshleman);

S2/WG10—Measurement and Evaluation of Machinery for Acceptance and Condition (R. Eshleman, Chair; H. Pusey, Vice Chair);

S2/WG11—Measurement and Evaluation of Mechanical Vibration of Vehicles (A. F. Kilcullen);


S3/WG39(S2)—Human Exposure to Mechanical Vibration and Shock (D. D. Reynolds, Chair; H. E. von Gierke, Vice Chair).

Inactive Working Group:

S2/WG54—Atmospheric Blast Effects (J. W. Reed).

**S2 STANDARDS ON MECHANICAL VIBRATION AND SHOCK**


ANSI S2.5-1962 (R 1997) American National Standard Recommendations for Specifying the Performance of Vibration Machines.


ANSI S2.45-1983 (R 1997) American National Standard Electrodynami...


Accredited Standards Committee on Bioacoustics, S3

(R. F. Burkard, 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. Schauch);

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, Chair; H. E. von Gierke, Vice Chair);

S3/WG43—Method for Calibration of Bone Conduction Vibration (J. Dur- rant);

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 Audiometry (A. J. Millich);

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 Audiometry (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. Frey and B. Kruger, Co-Chairs);

S3/WG87—Human Response to Repetitive Mechanical Shock (N. Alem);

S3/WG88—Standard Audible Emergency Evacuation and Other Signals (I. Mande);

S3/WG89—Spatial Audiometry in Real and Virtual Environments (J. Be- sing);


S3 Liaison Working Group:

S3/L-1 S3 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.


Accredited Standards Committee on Noise, S12

(P. D. Schomer, Chair; R. D. Hellweg, Vice Chair)

Scope: Standards, specifications, and terminology in the field of acoustical noise pertaining to methods of measurement, evaluation and control; including biological safety, tolerance, and comfort and physical acoustics as related to environmental and occupational noise.

S12 Working Groups

S12/Advisory—Advisory Planning Committee to S12 (R. D. Hellweg);

S12/WG3—Measurement of Noise from Office and Data Processing Equip- ment (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 Labelling in Products (R. D. Hellweg and J. Pope, Co-Chairs);
12/WG39—Measurement of the Noise Attenuation of Active and for Passive Level Dependent Hearing Protective Devices (D. Gauger);
12/WG40—Measurement of the Noise Aboard Ships (S. Fisher, Chair; A. F. Kilcully, 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:
S12L-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);
S12L-2 Measurement of Noise from Pneumatic Compressors Tools and Machines (Parallel to ISO/TC 43/SC 1/WG 9) (Vacant);
S12L-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);
S12L-4 SAE Committee A-21 for TAG Liaison on Measurement and Evaluation of Aircraft Noise (J. Brooks);
S12L-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. P. Roy);
S12L-6 SAE Construction—Agricultural Sound-Level Committee (W. H. Flint);
S12L-7 SAE Specialized Vehicle and Equipment Sound Level (T. Disch);
S12L-8 ASTM PTC No.36 Measurement of Industrial Sound (R. A. Putnam, Chair; B. M. Brooks, Vice Chair).

S12 STANDARDS ON NOISE

Determination of sound power levels of noise sources—Engineering methods for small, movable sources in reverberant fields—Part 1: Comparison method for hard-walled test rooms.


### 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 108 Mechanical Vibration and Shock (D. J. Evans, U.S. TAG Chair)
- ISO/TC 108/SC1 Balancing, including Balancing Machines (M. Schoenfeld, U.S. TAG Chair)
- ISO/TC 108/SC 5 Condition Monitoring and Diagnostic Machines (D. J. Vendittis, U.S. TAG Chair; R. F. Taddeo, U.S. Tag Vice Chair)
- IEC/TC 29 Electroacoustics (V. Nedzelnitsky, U.S. Technical Advisor)

### Standards News from the United States

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

#### Newly published American National Standards

**ACOUSTICS**


This Standard contains guidelines for limiting the hull and superstructure vibration of ships for the purposes of habitability and mechanical suitability. The mechanical suitability guidelines result in a suitable environment for installed equipment and preclude many major vibration problems, such as unbalance, misalignment, and other damage to the propulsion system. To obtain data to compare with the guidelines, this standard also specifies data acquisition and processing procedures.

**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 withdrawal approval of existing standards. The dates listed in parentheses are for information only.

**ASTM Standards**

**ACOUSTICS**


### Final actions on American National Standards

ANSI’s Board of Standards Review has taken the final action indicated on the standards listed below. When the approved standards are published, an announcement will be carried in Standards Action, in ANSI’s Supplements to the Catalog of American National Standards, and in trade publications.

**SHIPS**


### ASTM Standards

**SHOCK AND VIBRATION**


### Standards Withdrawn

**FLUID POWER—HYDRAULIC**


### 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**

**MECHANICAL VIBRATION AND SHOCK (TC 108)**


**IEC Standards**

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


**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)

COMPRESSORS, PNEUMATIC TOOLS, AND PNEUMATIC MACHINES (TC 118)

CEN
European drafts sent for CEN enquiry
The following European drafts have been sent to CEN members for enquiry and comment. If the draft is a proposed adoption of an International Standard, it is so noted. The final date for offering comments is listed after each proposal.

ACOUSTICS


POWER TOOLS

European drafts sent for formal vote (for information)
The following European drafts have been sent to CEN members for formal vote. If the draft is a proposed adoption of an International Standard, it is so noted.

WORKPLACE SAFETY


COMPRESSORS

HEARING PROTECTORS

INFORMATION TECHNOLOGY

International documents submitted to the U. S. for vote and/or comment
Some of the documents processed recently by the ASA Standards Secretariat. Dates in parentheses are deadlines for submission of comments and recommendation for vote, and they are for information only.

U.S. TAG
S1
