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ACOUSTICAL STANDARDS NEWS FREE

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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). 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, and other information on the Standards Program of the Acoustical Society of America, are available via the ASA home page: <http://asa.aip.org>.

Animal Bioacoustics Standards Subcommittee Launched

The Acoustical Society of America is pleased to announce the formation of a new standards subcommittee focused on the subject of Animal Bioacoustics. The formation of this subcommittee was approved by Accredited Standards Committee S3, Bioacoustics, to provide an opportunity for American National Standards to be developed by experts in this specialized subject. The scope of the subcommittee includes: "Standards, specifications, methods of measurement and test, instrumentation and terminology in the field of psychological and physiological acoustics, including aspects of general acoustics, which pertain to biological safety, tolerance and comfort of non-human animals, including both risk to individual animals and to the long-term viability of populations. Animals to be covered may potentially include commercially grown food animals; animals harvested for food in the wild; pets; laboratory animals; exotic species in zoos, oceanaria or aquariums; or free-ranging wild animals."

Membership in the subcommittee is open to companies, government agencies, or professional, scientific or trade associations, with a direct and material interest in the work of the subcommittee. Members of the subcommittee may also elect to become members of Accredited Standards Committee S3 if they wish.

The subcommittee operates according to operating procedures that are accredited by the American National Standards Institute (ANSI) and meets the ANSI requirements for openness, balance, and due process. Organizations wishing to learn more about this subcommittee or the other standards committees and U.S. Technical Advisory Groups administered by the Acoustical Society of America should contact the Standards Secretariat at the telephone number given above or by e-mail at asastds@aip.org.

Standards Meetings Calendar—National

• 10–14 November 2008

Meetings of the National Standards Committees S1-Acoustics, S2-Mechanical Vibration and Shock, S3-Bioacoustics, S3/SC1-Animal Bioacoustics, and S12-Noise, and the ten U.S. TAGs administered by ASA will be held in conjunction with the 156th meeting of the Acoustical Society of America in Miami, Florida.

Standards Meetings Calendar—International

• 26–30 May 2008

Meetings of ISO/TC 43, in conjunction with ISO/TC 43/SC 1 and ISO/TC 43/SC 2, will be held in Borås, Sweden.

• 27–31 May 2008

Meetings of ISO/TC 108/SC 5 will be held in Kyoto, Japan.

• 3–7 November 2008

Meetings of ISO/TC 108, ISO/TC 108/SC 3 and ISO/TC 108/SC 6 will be held in St. Louis, Missouri.

Details about these meetings may be obtained from the Secretariat.

ACCREDITED STANDARDS COMMITTEE ON ACOUSTICS, S1

(P. Battenberg, Chair; R.J. Peppin, 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, tolerances and comfort.

S1 Working Groups

S1/Advisory-Advisory Planning Committee to S1 (P. Battenberg);

S1/WG1-Standard Microphones and their Calibration (V. Nedzelnitsky);

S1/WG4-Measurement of Sound Pressure Levels in Air (M.A. Nobile, Chair; E. Dunens, Vice Chair);

S1/WG5-Band Filter Sets (A.H. Marsh);

S1/WG17-Sound Level Meters and Integrating Sound Level Meters (B.M. Brooks);

S1/WG19-Insertion Loss of Windscreens (A.J. Campanella);

S1/WG20-Ground Impedance (Measurement of Ground Impedance and Attenuation of Sound Due to the Ground (K. Attenborough, Chair; J.M. Sabatier, Vice Chair);

S1/WG22-Bubble Detection and Cavitation Monitoring (Vacant);

S1/WG25-Specification for Acoustical Calibrators (P. Battenberg);

S1/WG26-High Frequency Calibration of the Pressure Sensitivity of Microphones (A.J. Zuckerwar);

S1/WG27-Acoustical Terminology (J.S. Viperman);

S1 Inactive Working Groups

S1/WG15-Noise Canceling Microphones (R. McKinley, Chair)

S1/WG16-FFT Acoustical Analyzers (R.J. Peppin, Chair)

S1/WG21-Electromagnetic Susceptibility (EMS) of Acoustical Instruments (J.P. Seiler, Chair)

S1/WG24-Design Response of Weighting Networks for Acoustical Measurements (G.S.K. Wong, Chair)

S1 Standards on Acoustics

ANSI S1.1-1994 (R 2004) American National Standard Acoustical Terminology.

ANSI S1.4-1983 (R 2006) American National Standard Specification for Sound Level Meters. This Standard includes **ANSI S1.4A-1985 (R 2001)** Amendment to ANSI S1.4-1983.

ANSI S1.6-1984 (R 2006) American National Standard Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements.

ANSI S1.8-1989 (R 2006) American National Standard Reference Quantities for Acoustical Levels.

ANSI S1.9-1996 (R 2006) American National Standard Instruments for the Measurement of Sound Intensity.

ANSI S1.11-2004 American National Standard Specification for Octave-Band and Fractional-Octave-Band Analog and Digital Filters.

ANSI S1.13-2005 American National Standard Measurement of Sound Pressure Levels in Air.

ANSI S1.14-1998 (R 2003) American National Standard Recommendations for Specifying and Testing the Susceptibility of Acoustical Instruments to Radiated Radio-Frequency Electromagnetic Fields, 25 MHz to 1 GHz.

ANSI S1.15/Part 1-1997 (R 2006) American National Standard Measurement Microphones, Part 1: Specifications for Laboratory Standard Microphones.

ANSI S1.15/Part 2-2005 American National Standard Measurement Microphones, Part 2: Primary Method for Pressure Calibration of Laboratory Standard Microphones by the Reciprocity Technique.

ANSI S1.16-2000 (R 2005) American National Standard Method for Measuring the Performance of Noise Discriminating and Noise Canceling Microphones.

ANSI S1.17/Part 1-2004 American National Standard Microphone Windscreens—Part 1: Measurements and Specification of Insertion Loss in Still or Slightly Moving Air.

ANSI S1.18-1999 (R 2004) American National Standard Template Method for Ground Impedance.

ANSI S1.20-1988 (R 2003) American National Standard Procedures for Calibration of Underwater Electroacoustic Transducers.

ANSI S1.22-1992 (R 2007) American National Standard Scales and Sizes for Frequency Characteristics and Polar Diagrams in Acoustics.

ANSI S1.24 TR-2002 (R 2007) ANSI Technical Report Bubble Detection and Cavitation Monitoring.

ANSI S1.25-1991 (R 2007) American National Standard Specification for Personal Noise Dosimeters.

ANSI S1.26-1995 (R 2004) American National Standard Method for Calculation of the Absorption of Sound by the Atmosphere.

ANSI S1.40-2006 American National Standard Specifications and Verification Procedures for Sound Calibrators. (*Revision of ANSI S1.40-1984*).

ANSI S1.42-2001 (R 2006) American National Standard Design Response of Weighting Networks for Acoustical Measurements.

ANSI S1.43-1997 (R 2007) American National Standard Specifications for Integrating-Averaging Sound Level Meters.

ACCREDITED STANDARDS COMMITTEE ON MECHANICAL VIBRATION AND SHOCK, S2

(R.L. Eshleman, Chair; A.T. Herfat, 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, including the effects of exposure to mechanical vibration and shock on humans, including those aspects which pertain to biological safety, tolerance and comfort.

S2 Working Groups

S2/WG 1-S2 Advisory Planning Committee (R.L. Eshleman, Chair; A.T. Herfat, Vice Chair);

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 (T.S. Edwards);

S2/WG4-Characterization of the Dynamic Mechanical Properties of Viscoelastic Polymers (W. Madigosky, Chair; J. Niemiec, Vice Chair);

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 (G.B. 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.L. Eshleman);

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

S2/WG10/Panel 1—Balancing (R.L. Eshleman);

S2/WG10/Panel 2—Operational Monitoring and Condition Evaluation (R. Bankert);

S2/WG10/Panel 3—Machinery Testing (R.L. Eshleman);

S2/WG10/Panel 4—Prognosis (A.J. Hess);

S2/WG10/Panel 5—Data Processing, Communication, and Presentation (K. Bever);

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

S2/WG12—Measurement and Evaluation of Structures and Structural Systems for Assessment and Condition Monitoring (B.E. Douglas, Chair);

S2/WG13—Shock Test Requirements for Shelf-Mounted and Other Commercial Electronic Systems (B. Lang, Chair);

S2/WG39—Human Exposure to Mechanical Vibration and Shock—Parallel to ISO/TC 108/SC 4 (D.D. Reynolds, Chair; R. Dong, Vice Chair).

S2 Inactive Working Groups

S2/WG54—Atmospheric Blast Effects (J.W. Reed, Chair; J.H. Keefer, Vice Chair).

S2 Standards on Mechanical Vibration and Shock

ANSI S2.1-2000/ISO 2041:1990 American National Standard Vibration and Shock -Vocabulary. (Nationally Adopted International Standard).

ANSI S2.2-1959 (R 2006) American National Standard Methods for the Calibration of Shock and Vibration Pickups.

ANSI S2.4-1976 (R 2004) American National Standard Method for Specifying the Characteristics of Auxiliary Analog Equipment for Shock and Vibration Measurements.

ANSI S2.7-1982 (R 2004) American National Standard Balancing Terminology.

ANSI S2.8-2007 American National Standard Technical Information Used for Resilient Mounting Applications.

ANSI S2.9-1976 (R 2006) American National Standard Nomenclature for Specifying Damping Properties of Materials.

ANSI S2.16-1997 (R 2006) American National Standard Vibratory Noise Measurements and Acceptance Criteria of Shipboard Equipment.

ANSI S2.17-1980 (R 2004) American National Standard Techniques of Machinery Vibration Measurement.

ANSI S2.19-1999 (R 2004) American National Standard Mechanical Vibration—Balance Quality Requirements of Rigid Rotors, Part 1: Determination of Permissible Residual Unbalance, Including Marine Applications.

ANSI S2.20-1983 (R 2006) American National Standard Estimating Air Blast Characteristics for Single Point Explosions in Air, with a Guide to Evaluation of Atmospheric Propagation and Effects.

ANSI S2.21-1998 (R 2007) American National Standard Method for Preparation of a Standard Material for Dynamic Mechanical Measurements.

ANSI S2.22-1998 (R 2007) American National Standard Resonance Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials.

ANSI S2.23-1998 (R 2007) American National Standard Single Cantilever Beam Method for Measuring the Dynamic Mechanical Properties of Viscoelastic Materials.

ANSI S2.24-2001 (R 2006) American National Standard Graphical Presentation of the Complex Modulus of Viscoelastic Materials.

ANSI S2.25-2004 American National Standard Guide for the Measurement, Reporting, and Evaluation of Hull and Superstructure Vibration in Ships.

ANSI S2.26-2001 (R 2006) American National Standard Vibration Testing Requirements and Acceptance Criteria for Shipboard Equipment.

ANSI S2.27-2002 (R 2007) American National Standard Guidelines for the Measurement and Evaluation of Vibration of Ship Propulsion Machinery.

ANSI S2.28-2003 American National Standard Guide for the Measurement and Evaluation of Vibration of Shipboard Machinery.

ANSI S2.29-2003 American National Standard Guide for the Measurement and Evaluation of Vibration of Machine Shafts on Shipboard Machinery.

ANSI S2.31-1979 (R 2004) American National Standard Methods for the Experimental Determination of Mechanical Mobility, Part 1: Basic Definitions and Transducers.

ANSI S2.32-1982 (R 2004) American National Standard Methods for the Experimental Determination of Mechanical Mobility, Part 2: Measurements Using Single-Point Translational Excitation.

ANSI S2.34-1984 (R 2005) American National Standard Guide to the Experimental Determination of Rotational Mobility Properties and the Complete Mobility Matrix.

ANSI S2.42-1982 (R 2004) American National Standard Procedures for Balancing Flexible Rotors.

ANSI S2.43-1984 (R 2005) American National Standard Criteria for Evaluating Flexible Rotor Balance.

ANSI S2.46-1989 (R 2005) American National Standard Characteristics to be Specified for Seismic Transducers.

ANSI S2.48-1993 (R 2006) American National Standard Servo-Hydraulic Test Equipment for Generating Vibration—Methods of Describing Characteristics.

ANSI S2.60-1987 (R 2005) American National Standard Balancing Machines—Enclosures and Other Safety Measures.

ANSI S2.61-1989 (R 2005) American National Standard Guide to the Mechanical Mounting of Accelerometers.

ANSI S2.70-2006 American National Standard Guide for the Measurement and Evaluation of Human Exposure to Vibration Transmitted to the Hand. (*Revision of ANSI S3.34-1986*)

ANSI S2.71-1983 (R 2006) American National Standard Guide to the Evaluation of Human Exposure to Vibration in Buildings (*Reaffirmation and redesignation of ANSI S3.29-1983*)

ANSI S2.72/Part 1-2002 (R 2007)/ISO 2631-1:1997 (*Reaffirmation and redesignation of ANSI S3.18/Part 1-2002/ISO 2631-1:1997*) American National Standard Mechanical vibration and shock—Evaluation of human exposure to whole-body vibration—Part 1: General requirements. (Nationally Adopted International Standard)

ANSI S2.72/Part 4-2003 (R 2007) / ISO 2631-4:2001 (*Reaffirmation and redesignation of ANSI S3.18/Part 4-2003/ISO 2631-4:2001*) American National Standard Mechanical vibration and shock—Evaluation of human exposure to whole-body vibration—Part 4: Guidelines for the evaluation of the effects of vibration and rotational motion on passenger and crew comfort in fixed-guideway transport systems. (Nationally Adopted International Standard)

ANSI S2.73-2002 / ISO 10819:1996 (R 2007) (*Reaffirmation and redesignation of ANSI S3.40-2002/ISO 10819:1996*) American National Standard Mechanical vibration and shock—Hand-arm vibration—Method for the

measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand. (Nationally Adopted International Standard)

ACCREDITED STANDARDS COMMITTEE ON BIOACOUSTICS, S3

(C.A. Champlin, Chair; D.A. Preves, Vice Chair)

Scope: 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.

S3 Working Groups

S3/Advisory—Advisory Planning Committee to S3 (C.A. Champlin, Chair; D.A. Preves, Vice Chair);

S3/WG35—Audiometers (R.L. Grason);

S3/WG36—Speech Intelligibility (R.S. Schlauch);

S3/WG37—Coupler Calibration of Earphones (B. Kruger);

S3/WG39—Human Exposure to Mechanical Vibration and Shock (D.D. Reynolds, Chair; R. Dong, Vice Chair);

S3/WG43—Method for Calibration of Bone Conduction Vibrators (J.D. Durrant);

S3/WG48—Hearing Aids (D.A. Preves);

S3/WG51—Auditory Magnitudes (R.P. Hellman);

S3/WG56—Criteria for Background Noise for Audiometric Testing (J. Franks);

S3/WG59—Measurement of Speech Levels (L.A. Wilber and M.C. Killion, Co-Chairs);

S3/WG60—Measurement of Acoustic Impedance and Admittance of the Ear (Vacant);

S3/WG62—Impulse Noise with Respect to Hearing Hazard (J.H. Patterson, Chair; R. Hamernik, Vice Chair);

S3/WG67—Manikins (M.D. Burkhard);

S3/WG72—Measurement of Auditory Evoked Potentials (R.F. Burkard);

S3/WG76—Computerized Audiometry (A.J. Miltich);

S3/WG79—Methods for Calculation of the Speech Intelligibility Index (C.V. Pavlovic);

S3/WG81—Hearing Assistance Technologies (L. Thibodeau and L.A. Wilber, Co-Chairs);

S3/WG82—Basic Vestibular Function Test Battery (C. Wall);

S3/WG83—Sound Field Audiometry (T.R. Letowski);

S3/WG84—Otoacoustic Emissions (G.R. Long);

S3/WG88—Standard Audible Emergency Evacuation and Other Signals (Vacant);

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

S3/WG91—Text-to-Speech Synthesis Systems (A.K. Syrdal and C. Bickley, Co-Chairs).

S3 Liaison Group

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

S3 Inactive Working Groups

S3/WG58 Hearing Conservation Criteria (J.D. Royster and L.H. Royster);

S3/WG71 Artificial Mouths (R. McKinley);

S3/WG80 Probe-tube Measurements of Hearing Aid Performance (W.A. Cole);

S3/WG85 Allocation of Noise-Induced Hearing Loss (R.A. Dobie, Chair).

S3 Standards on Bioacoustics

ANSI S3.1-1999 (R 2003) American National Standard Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms.

ANSI S3.2-1989 (R 1999) American National Standard Method for Measuring the Intelligibility of Speech over Communication Systems.

ANSI S3.4-2007 American National Standard Procedure for the Computation of Loudness of Steady Sounds.

ANSI S3.5-1997 (R 2007) American National Standard Methods for Calculation of the Speech Intelligibility Index.

ANSI S3.6-2004 American National Standard Specification for Audiometers. (*Revision of ANSI S3.6-1996*).

ANSI S3.7-1995 (R 2003) American National Standard Method for Coupler Calibration of Earphones.

ANSI S3.13-1987 (R 2007) American National Standard Mechanical Coupler for Measurement of Bone Vibrators.

ANSI S3.20-1995 (R 2003) American National Standard Bioacoustical Terminology.

ANSI S3.21-2004 American National Standard Methods for Manual Pure-Tone Threshold Audiometry. (*Revision of ANSI S3.21-1978*).

ANSI S3.22-2003 American National Standard Specification of Hearing Aid Characteristics. (*Revision of ANSI S3.22-1996*).

ANSI S3.25-1989 (R 2003) American National Standard for an Occluded Ear Simulator.

ANSI S3.35-2004 American National Standard Method of Measurement of Performance Characteristics of Hearing Aids under Simulated Real-Ear Working Conditions.

ANSI S3.36-1985 (R 2006) American National Standard Specification for a Manikin for Simulated *in situ* Airborne Acoustic Measurements.

ANSI S3.37-1987 (R 2007) American National Standard Preferred Earhook Nozzle Thread for Postauricular Hearing Aids.

ANSI S3.39-1987 (R 2007) American National Standard Specifications for Instruments to Measure Aural Acoustic Impedance and Admittance (Aural Acoustic Immittance).

ANSI S3.41-1990 (R 2001) American National Standard Audible Emergency Evacuation Signal.

ANSI S3.42-1992 (R 2007) American National Standard Testing Hearing Aids with a Broad-Band Noise Signal.

ANSI S3.44-1996 (R 2006) American National Standard Determination of Occupational Noise Exposure and Estimation of Noise-Induced Hearing Impairment.

ANSI S3.45-1999 American National Standard Procedures for Testing Basic Vestibular Function.

ANSI S3.46-1997 (R 2002) American National Standard Methods of Measurement of Real-Ear Performance Characteristics of Hearing Aids.

ACCREDITED STANDARDS SUBCOMMITTEE ON ANIMAL BIOACOUSTICS, S3/SC1

(D.K. Delaney, Chair; VACANT, Vice Chair)

Scope: Standards, specifications, methods of measurement and test, instrumentation and terminology in the field of psychological and physiological acoustics, including aspects of general acoustics, which pertain to biological safety, tolerance and comfort of non-human animals, including both risk to individual animals and to the long-term viability of populations. Animals to be covered may potentially include commercially grown food animals; animals harvested for food in the wild; pets; laboratory animals; exotic species in zoos, oceanaria or aquariums; or free-ranging wild animals.

S3/SC1 Working Groups

S3/SC1/WG1—Animal Bioacoustics Terminology (A.E. Bowles);

S3/SC1/WG2—Effects of Sound on Fish and Turtles (R.R. Fay and A.N. Popper, Co-Chairs);

S3/SC1/WG3—Passive Acoustic Monitoring for Marine Mammal Mitigation for Seismic Surveys (A.M. Thode).

ACCREDITED STANDARDS COMMITTEE ON NOISE, S12

(R.D. Hellweg, Chair; W.J. Murphy, 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, Chair; W.J. Murphy, Vice Chair);

S12/WG3—Measurement of Noise from Information Technology and Telecommunications Equipment (K. X. C. Man, Chair);

S12/WG11—Hearing Protector Attenuation and Performance (E.H. Berger, Chair);

S12/WG13—Method for the Selection of Hearing Protectors that Optimize the Ability to Communicate (D. Byrne, Chair);

S12/WG14—Measurement of the Noise Attenuation of Active and /or Passive Level Dependent Hearing Protective Devices (W.J. Murphy, 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 (B.M. Brooks and J. Schmitt, Co-Chairs);

S12/WG31—Predicting Sound Pressure Levels Outdoors (R.J. Peppin, Chair; L. Pater, Vice Chair);

S12/WG32—Revision of ANSI S12.7-1986 Methods for Measurement of Impulse Noise (A.H. Marsh);

S12/WG36—Development of Methods for Using Sound Quality (P. Davies and G.L. Ebbit, Co-Chairs);

S12/WG38—Noise Labeling in Products (R.D. Hellweg and J. Pope, Co-Chairs);

S12/WG40—Measurement of the Noise Aboard Ships (S. Antonides, Chair; S. Fisher, Vice Chair);

S12/WG41—Model Community Noise Ordinances (L.S. Finegold, Chair; B.M. Brooks, Vice Chair);

S12/WG44—Speech Privacy (G.C. Tocci, Chair; D. Sykes, Vice Chair);

S12/WG45—Measurement of Occupational Noise Exposure from Telephone Equipment (K.A. Woo, Chair; L.A. Wilber, Vice-Chair);

S12/WG46—Acoustical Performance Criteria for Relocatable Classrooms (T. Hardiman and P.D. Schomer, Co-Chairs);

S12/WG47—Underwater Noise Measurements of Ships (M. Bahtiarian, Chair);

S12/WG48—Railroad Horn Sound Emission Testing (J. Erdreich, Chair; J.J. Earshen, Vice Chair);

S12/WG49—Noise from Hand-Operated Power Tools, Excluding Pneumatic Tools (B.M. Brooks, Chair)

S12 Liaison Groups

S12/L-1 IEEE 85 Committee for TAG Liaison—Noise Emitted by Rotating Electrical Machines (Parallel to ISO/TC43/SC 1/WG13) (R.G. Bartheld, Chair);

S12/L-2 Measurement of Noise from Pneumatic Compressors Tools and Machines (Parallel to ISO/TC43/SC 1/WG9) (Vacant);

S12/L-3 SAE Committee for TAG Liaison on Measurement and Evaluation of Motor Vehicle Noise (parallel to ISO/TC 43/SC1/WG8) (R.F. Schumacher, Chair);

S12/L-4 SAE Committee A-21 for TAG Liaison on Measurement and Evaluation of Aircraft Noise (J.D. Brooks, Chair);

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.P. Roy, Chair);

S12/L-6 SAE Construction-Agricultural Sound Level Committee (I. Douell, Chair);

S12/L-7 SAE Specialized Vehicle and Equipment Sound Level Committee (T.M. Disch, Chair);

S12/L-8 ASTM PTC 36 Measurement of Industrial Sound (R.A. Putnam, Chair; B.M. Brooks, Vice Chair).

S12 Inactive Working Groups

S12/WG9 Annoyance Response to Impulsive Noise (L.C. Sutherland, Chair);

S12/WG19 Measurement of Occupational Noise Exposure (J.P. Barry and R. Goodwin, Co-Chairs);

S12/WG27 Outdoor Measurement of Sound Pressure Level (G.A. Daigle, Chair);

S12/WG29 Field Measurement of the Sound Output of Audible Public-Warning Devices (Sirens) (P. Graham, Chair);

S12/WG37—Measuring Sleep Disturbance Due to Noise (K.S. Pearsons, Chair).

S12 Standards on Noise

ANSI S12.1-1983 (R 2006) American National Standard Guidelines for the Preparation of Standard Procedures to Determine the Noise Emission from Sources.

ANSI S12.2-1995 (R 1999) American National Standard Criteria for Evaluating Room Noise.

ANSI S12.3-1985 (R 2006) American National Standard Statistical Methods for Determining and Verifying Stated Noise Emission Values of Machinery and Equipment.

ANSI S12.5-2006/ISO 6926:1999 American National Standard Acoustics-Requirements for the Performance and Calibration of Reference Sound Sources Used for the Determination of Sound Power Levels. (Nationally Adopted International Standard).

ANSI S12.6-1997 (R 2002) American National Standard Methods for Measuring the Real-Ear Attenuation of Hearing Protectors. (*Revision of ANSI S12.6-1984*).

ANSI S12.7-1986 (R 2006) American National Standard Methods for Measurements of Impulse Noise.

ANSI S12.8-1998 (R 2003) American National Standard Methods for Determining the Insertion Loss of Outdoor Noise Barriers.

ANSI S12.9/Part 1-1988 (R 2003) American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound, Part 1.

ANSI S12.9/Part 2-1992 (R 2003) American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound, Part 2: Measurement of Long-Term, Wide-Area Sound.

ANSI S12.9/Part 3-1993 (R 2003) American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound, Part 3: Short-Term Measurements with an Observer Present.

ANSI S12.9/Part 4-2005 American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound, Part 4: Noise Assessment and Prediction of Long-Term Community Response.

ANSI S12.9/Part 5-1998 (R 2003) American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound, Part 5: Sound Level Descriptors for Determination of Compatible Land Use.

ANSI S12.9/Part 6-2000 (R 2005) American National Standard Quantities and Procedures for Description and Measurement of Environmental Sound, Part 6: Methods for Estimation of Awakenings Associated with Aircraft Noise Events Heard in Homes.

ANSI/ASA S12.10-2002 (R 2007)/ISO 7779:1999 American National Standard Acoustics-Measurement of airborne noise emitted by information technology and telecommunications equipment. (Nationally Adopted International Standard).

ANSI S12.11/Part 1-2003/ISO 10302:1996 (MOD) American National Standard Acoustics-Measurement of noise and vibration of small air-

moving devices-Part 1: Airborne noise emission. (Modified Nationally Adopted International Standard).

ANSI S12.11/Part 2-2003 American National Standard Acoustics-Measurement of Noise and Vibration of Small Air-Moving Devices-Part 2: Structure-Borne Vibration.

ANSI/ASA S12.12-1992 (R 2007) American National Standard Engineering Method for the Determination of Sound Power Levels of Noise Sources Using Sound Intensity.

ANSI S12.13 TR-2002 ANSI Technical Report Evaluating the Effectiveness of Hearing Conservation Programs through Audiometric Data Base Analysis.

ANSI/ASA S12.14-1992 (R 2007) American National Standard Methods for the Field Measurement of the Sound Output of Audible Public Warning Devices Installed at Fixed Locations Outdoors.

ANSI/ASA S12.15-1992 (R 2007) American National Standard For Acoustics-Portable Electric Power Tools, Stationary and Fixed Electric Power Tools, and Gardening Appliances-Measurement of Sound Emitted.

ANSI/ASA S12.16-1992 (R 2007) American National Standard Guidelines for the Specification of Noise of New Machinery.

ANSI S12.17-1996 (R 2006) American National Standard Impulse Sound Propagation for Environmental Noise Assessment.

ANSI S12.18-1994 (R 2004) American National Standard Procedures for Outdoor Measurement of Sound Pressure Level.

ANSI S12.19-1996 (R 2006) American National Standard Measurement of Occupational Noise Exposure.

ANSI S12.23-1989 (R 2006) American National Standard Method for the Designation of Sound Power Emitted by Machinery and Equipment.

ANSI S12.42-1995 (R 2004) American National Standard Microphone-in-Real-Ear and Acoustic Test Fixture Methods for the Measurement of Insertion Loss of Circumaural Hearing Protection Devices.

ANSI/ASA S12.43-1997 (R 2007) American National Standard Methods for Measurement of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions.

ANSI/ASA S12.44-1997 (R 2007) American National Standard Methods for Calculation of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions from Sound Power Level.

ANSI/ASA S12.50-2002 (R 2007)/ISO 3740:2000 American National Standard Acoustics -Determination of sound power levels of noise sources—Guidelines for the use of basic standards. (Nationally Adopted International Standard)

ANSI/ASA S12.51-2002 (R 2007) /ISO3741:1999 American National Standard Acoustics—Determination of sound power levels of noise sources using sound pressure-Precision method for reverberation rooms. This Standard includes Technical Corrigendum 1-2001. (Nationally Adopted International Standard) *This standard replaces ANSI S12.31-1990 and ANSI S12.32-1990.*

ANSI S12.53/Part 1-1999 (R 2004)/ISO 3743-1:1994 American National Standard Acoustics—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. (Nationally Adopted International Standard) *This standard, along with ANSI S12.53/Part 2-1999, replaces ANSI S12.33-1990.*

ANSI S12.53/Part 2-1999 (R 2004)/ISO 3743-2:1994 American National Standard Acoustics—Determination of sound power levels of noise

sources using sound pressure-Engineering methods for small, movable sources in reverberant fields—Part 2: Methods for special reverberation test rooms. (Nationally Adopted International Standard) *This standard, along with ANSI S12.53/Part 1-1999, replaces ANSI S12.33-1990.*

ANSI S12.54-1999 (R 2004)/ISO 3744:1994 American National Standard Acoustics—Determination of sound power levels of noise sources using sound pressure-Engineering method in an essentially free field over a reflecting plane. (Nationally Adopted International Standard) *This standard replaces ANSI S12.34-1988.*

ANSI S12.55-2006/ISO 3745:2003 American National Standard Acoustics—Determination of sound power levels of noise sources using sound pressure-Precision methods for anechoic and hemi-anechoic rooms. (Nationally Adopted International Standard) *This standard replaces ANSI S12.35-1990.*

ANSI S12.56-1999 (R 2004)/ISO 3746:1995 American National Standard Acoustics—Determination of sound power levels of noise sources using sound pressure-Survey method using an enveloping measurement surface over a reflecting plane. (Nationally Adopted International Standard) *This standard replaces ANSI S12.36-1990.*

ANSI/ASA S12.57-2002 (R 2007)/ISO 3747:2000 American National Standard Acoustics—Determination of sound power levels of noise sources using sound pressure-Comparison method *in situ*. (Nationally Adopted International Standard).

ANSI S12.60-2002 American National Standard Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools.

ANSI S12.65-2006 American National Standard for Rating Noise with Respect to Speech Interference. (*Revision of ANSI S3.14-1977*).

ANSI/ASA S12.68-2007 American National Standard Methods of Estimating Effective A-Weighted Sound Pressure Levels When Hearing Protectors are Worn.

ASA COMMITTEE ON STANDARDS (ASACOS)

ASACOS (P.D. Schomer, Chair and ASA Standards Director)

U.S. TECHNICAL ADVISORY GROUPS (TAGS) FOR INTERNATIONAL STANDARDS COMMITTEES:

ISO/TC 43 Acoustics, ISO/TC 43/SC 1 Noise (P.D. Schomer, U.S. TAG Chair)

ISO/TC 108 Mechanical vibration, shock and condition monitoring (D.J. Evans, U.S. TAG Chair)

ISO/TC 108/SC2 Measurement and evaluation of mechanical vibration and shock as applied to machines, vehicles and structures (A.F. Kilcullen, and R.F. Taddeo U.S. TAG Co-Chairs)

ISO/TC 108/SC3 Use and calibration of vibration and shock measuring instruments (D.J. Evans, U.S. TAG Chair)

ISO/TC 108/SC4 Human exposure to mechanical vibration and shock (D.D. Reynolds, U.S. TAG Chair)

ISO/TC 108/SC5 Condition monitoring and diagnostics of machines (D.J. Vendittis, U.S. TAG Chair; R. Taddeo, U.S. TAG Vice Chair)

ISO/TC 108/SC6 Vibration and shock generating systems (G. Booth, U.S. TAG 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)

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 parenthesis are for information only.

ASA (ASC S1) (Acoustical Society of America)

New Standards

BSR/ASA S1.44-200x, High-Frequency Calibration of the Pressure Sensitivity of Microphones by Means of Measurements in the Free Field (new standard)

Describes procedures to perform a secondary calibration of the pressure sensitivity of microphones for frequencies above 20 kHz. It utilizes a substitution method, requiring a reference microphone for which the electrostatic actuator frequency response is known. The range of frequencies will be limited to the known frequency response range of the reference microphone. (November 12, 2007)

ASA (ASC S2) (Acoustical Society of America)

New Standards

BSR/ASA S2.62-200x, Shock Test Requirements for Equipment in a Rugged Shock Environment (new standard)

This standard is used for testing equipment that will be subjected to shock. Defines test requirements and severity thresholds for a large range of shock environments, including but not limited to shipping, transport, and rugged operational environments. This standard will allow vendors to better market, and users to more easily identify equipment that will operate or simply survive in rugged shock environments. This standard includes references to various ASTM, IEC, NATO, and US military standards. (December 3, 2007)

ASA (ASC S12) (Acoustical Society of America)

Revisions

BSR/ASA S12.9-Part 5-200x, Quantities and Procedures for Description and Measurement of Environmental Sound—Part 5: Sound Level Descriptors for Determination of Compatible Land Use (revision of ANSI S12.9-Part 5-1998 (R2003))

Provides guidance on the compatibility of various human uses of land with the acoustical environment, using the yearly average total day-night adjusted sound exposure or the yearly average adjusted day-night average sound level to characterize the acoustical environment. (November 12, 2007)

ASTM (ASTM International)

New Standards

BSR/ASTM F1334-200x, Test Method for Determining A-Weighted Sound Power Level of Vacuum Cleaners (new standard) The URL to search for scopes of ASTM standards is: <http://www.astm.org/dsearch.htm> (October 22, 2007)

IEEE (Institute of Electrical and Electronics Engineers)

Reaffirmations

BSR/IEEE 563-1991 (R2007), Guide on Conductor Self-Damping Measurements (reaffirmation of ANSI/IEEE 563-1991 (R2002))

Presents methods for measuring the inherent vibration damping characteristics of overhead conductors. The intent is to obtain information in a compatible and consistent form that will provide a reliable basis for studying the vibration and damping of conductors in the future, and for comparing data of various investigators. The methods and procedures recommended are not intended for quality-control test purposes. (December 25, 2007)

BSR/IEEE 664-1994 (R200x), Guide for Laboratory Measurement of the Power Dissipation Characteristics of Aeolian Vibration Dampers for Single Conductors (reaffirmation of ANSI/IEEE 664-1994 (R2000))

Describes the current methodologies, including apparatus, procedures, and measurement accuracies, for determining the dynamic characteristics of vibration dampers and damping systems. It provides some basic guidance regarding a given method's strengths and weaknesses. The methodologies and procedures described are applicable to indoor testing only. (December 25, 2007)

American National Standards Final Action

The following American National Standards have received final approval from the ANSI Board of Standards Review.

ASA (ASC S12) (Acoustical Society of America)

New Standards

ANSI/ASA S12.68-2007, Methods of Estimating Effective A-Weighted Sound Pressure Levels when Hearing Protectors Are Worn (new standard)

Reaffirmations

ANSI/ASA S12.10-2002/ISO 7779:1999 (R2007) (incl AMD1), Acoustics—Measurement of airborne noise emitted by information technology and telecommunications equipment (a Nationally Adopted International Standard) (reaffirmation and redesignation of ANSI S12.10-2002/ISO 7779:1999 (incl AMD1)).

ANSI/ASA S12.12-1992 (R2007), Engineering Method for the Determination of Sound Power Levels of Noise Sources Using Sound Intensity (reaffirmation and redesignation of ANSI S12.12-1992 (R2002)).

ANSI/ASA S12.14-1992 (R2007), Methods for the Field Measurement of the Sound Output of Audible Public Warning Devices Installed at Fixed Locations Outdoors (reaffirmation and redesignation of ANSI S12.14-1992 (R2002)).

ANSI/ASA S12.15-1992 (R2007), Acoustics—Portable Electric Power Tools, Stationary and Fixed Electric Power Tools, and Gardening Appliances—Measurement of Sound Emitted (reaffirmation and redesignation of ANSI S12.15-1992 (R2002)).

ANSI/ASA S12.16-1992 (R2007), Guidelines for the Specification of Noise of New Machinery (reaffirmation and redesignation of ANSI S12.16-1992 (R2002)).

ANSI/ASA S12.43-1997 (R2007), Methods for Measurement of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions (reaffirmation and redesignation of ANSI S12.43-1997 (R2002)).

ANSI/ASA S12.44-1997 (R2007), Methods for Calculation of Sound Emitted by Machinery and Equipment at Workstations and Other Specified Positions from Sound Power Level (reaffirmation and redesignation of ANSI S12.44-1997 (R2002)).

ANSI/ASA S12.50-2002/ISO 3704-2000 (R2007), Acoustics—Determination of Sound Power Levels of Noise Sources—Guidelines for the Use of Basic Standards (reaffirmation and redesignation of ANSI S12.50-2002/ISO 3704-2000).

ANSI/ASA S12.51-2002/Part 1/ISO 3741:1999 (R2007), Acoustics—Determination of Sound Power Levels of Noise Sources Using Sound Pressure—Precision Method for Reverberation Rooms (reaffirmation and redesignation of ANSI S12.51-2002/Part 1/ISO 3741:1999).

ANSI/ASA S12.57-2002/ISO 3747-2000 (R2007), Acoustics—Determination of Sound Power Levels of Noise Sources Using Sound Pressure—Comparison Method in situ (reaffirmation and redesignation of ANSI S12.57-2002/ISO 3747-2000).

Withdrawals

ANSI S12.30-1990 (R2002), Guidelines for the Use of Sound Power Standards and for the Preparation of Noise Test Codes (withdrawal of ANSI S12.30-1990 (R2002)).

SCTE (Society of Cable Telecommunications Engineers)

Revisions

ANSI/SCTE 62-2007, Measurement Procedure for Noise Figure (revision of ANSI/SCTE 62-2002)

Project Initiation Notification System (PINS)

ANSI Procedures require notification of ANSI by ANSI-accredited standards developers (ASD) of the initiation and scope of activities expected to result in new or revised American National Standards (ANS). Early notification of activity intended to reaffirm or withdraw an ANS and in some instances a PINS related to a national adoption is optional. The mechanism by which such notification is given is referred to as the PINS process. For additional information, see clause 2.4 of the ANSI Essential Requirements: Due Process Requirements for American National Standards.

ASA (ASC S2) (Acoustical Society of America)

BSR/ASA S2.63-200x/ISO 16063-22:2005, Methods for the calibration of vibration and shock transducers—Part 22: Shock calibration by comparison to a reference transducer (identical national adoption of ISO 16063-22:2005)

Specifies the instrumentation and procedures to be used for secondary shock calibration of rectilinear transducers, using a reference acceleration, velocity or force measurement for the time-dependent shock. The methods are applicable in a shock pulse (duration range) of 0,05 ms to 8,0 ms, and a dynamic range (peak value) of 100 m/s² to 100 km/s² (time dependent). The methods allow the transducer shock sensitivity to be obtained. Project Need: This standard is aimed at users engaged in shock measurements requiring traceability as stated in ISO 9001 and ISO/IEC 17025. Stakeholders: Engineers, Calibration Laboratories, Industry.

SCTE (Society of Cable Telecommunications Engineers)

BSR/SCTE IPS SP 909-200x, RF-over-Glass Gateway Environmental Requirements (new standard)

Specifies the minimum environmental operating requirements for the RFoG network interface unit. The proposed scope includes but is not limited to: operational and storage temperature and humidity range; RF isolation; electrical surge protection; mechanical shock and vibration; and

regulatory conformance. Project Need: To increase the use of fiber in cable plant. Stakeholders: Cable Telecommunications Industry.

Notice of Withdrawal: ANS at least 10 years past approval date

The following American National Standards have not been revised or reaffirmed within ten years from the date of their approval as American National Standards and accordingly are withdrawn:

ANSI/ASHRAE 68-1997, ANSI/AMCA 330-1997, Laboratory Method of Testing In-Duct Sound Power Measurement Procedure for Fans (also designated ANSI/AMCA 330-86)

Standards News from Abroad

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

International Organization for Standardization (ISO)

Newly Published ISO and IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO—the International Organization for Standardization.

ISO Standards

Acoustics (TC 43)

ISO 11689/Cor1:2007, Acoustics—Procedure for the comparison of noise-emission data for machinery and equipment—Corrigendum

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO 10326-1/Amd1:2007, Mechanical vibration—Laboratory method for evaluating vehicle seat vibration—Part 1: Basic requirements—Amendment 1

IEC Standards

ULTRASONICS (TC 87)

IEC 62127-1 Ed. 1.0 en:2007, Ultrasonics—Hydrophones—Part 1: Measurement and characterization of medical ultrasonic fields up to 40 MHz

IEC 62127-2 Ed. 1.0 en:2007, Ultrasonics—Hydrophones—Part 2: Calibration for ultrasonic fields up to 40 MHz

IEC 62127-3 Ed. 1.0 en:2007, Ultrasonics—Hydrophones—Part 3: Properties of hydrophones for ultrasonic fields up to 40 MHz

ISO Draft Standards

ACOUSTICS (TC 43)

ISO 3822-1/DAMD1.2, Acoustics—Laboratory tests on noise emission from appliances and equipment used in water supply installations—Part 1: Method of measurement—Measurement uncertainty (December 22, 2007)

IEC Draft Standards

104/439/FDIS, IEC 60068-2-6 Ed. 7.0: Environmental testing—Part 2: Tests—Test Fc: Vibration (sinusoidal) (November 23, 2007)