

# PLASA Standards News

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## Four PLASA Public Reviews, Last Call for BSR E1.19 & BSR E1.47

This is the last call for comment on BSR E1.19 and BSR E1.47. In addition to these, BSR E1.22 and BSR E1.39 have just been made available for public review. All four draft standards are available for download at [http://tsp.plasa.org/tsp/documents/public\\_review\\_docs.php](http://tsp.plasa.org/tsp/documents/public_review_docs.php). Review end dates are listed for each. Comments are due by the end of the day on the date listed below. The review is over—finished—when the "End Date" on the website is reached.

**BSR E1.19 - 201x** is a revision of the existing American National Standard, "Recommended Practice for the Use of Class A Ground-Fault Circuit Interrupters (GFCIs) Intended for Personnel Protection in the Entertainment Industry." The standard offers guidance, in accordance with existing applicable standards, on how to select, install, use and maintain ground fault protection devices with nominal 5 mA trip settings in the entertainment industry. The purpose of their use would be to protect persons from shock and persons and property from fire. The revision to the existing standard is being done to incorporate new information about avoiding nuisance tripping. It is available for public review *through 29 September 2014*.

**BSR E1.47 - 201x**, Recommended Guidelines for Entertainment Rigging System Inspections, offers guidance on inspecting entertainment rigging systems, which are systems used to lift and support scenery, luminaires, and other equipment overhead in entertainment venues, such as theatres, video/film studios, amphitheatres, and arenas used for live performances or special events. It is available for public review *through 6 October 2014*.

**BSR E1.22 - 201x**, Entertainment Technology - Fire Safety Curtain Systems, is a revision of the 2009 ANSI standard. It is being updated it to better align it with the requirements stated in NFPA 80. The draft standard

describes the materials, design, fabrication, installation, operation, testing, and maintenance of fire safety curtains and systems used for theatre proscenium opening protection. This draft is available for public review through 3 November 2014.

**BSR E1.39 - 201x**, Entertainment Technology - Selection and Use of Personal Fall Arrest Systems on Portable Structures Used in the Entertainment Industry, establishes minimum requirements for the selection and use of personal fall arrest systems on portable structures in the entertainment industry. The standard establishes minimum requirements for products and portable structures used in the service of PFAS. Other methods of fall protection, such as safety nets and guard rails, are not within the scope of this standard. This standard does not preclude the use of other standards to promote worker safety. It is available for public review through 3 November 2014.

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## **NFPA Issues Two TIAs to the 2014 NEC**

The NFPA Standards Council voted to issue two TIAs on NFPA 70, National Electrical Code, 2014 edition, with an effective date of 3 September 2014. These Tentative Interim Amendments for the 2014 edition are published on the doc info page at [www.nfpa.org/70](http://www.nfpa.org/70). Without these amendments, life in our world might have become a little more complicated. The TIAs as accepted and published are below.

**TIA 70-14-4**, Revise 520.45 to read as follows:

**Receptacles.** Receptacles for electrical equipment on stages shall be rated in amperes. Conductors supplying receptacles shall be in accordance with Articles 310 and 400. Section 406.15 shall not apply.

**TIA 70-14-5**, Revise 530.21(A) to read as follows:

**530.21 Plugs and Receptacles.**

**(A) Rating.** Plugs and receptacles, including cord connectors and flanged surface devices, shall be rated in amperes. The voltage rating of the plugs and receptacles shall be not less than the nominal circuit voltage. Plug and receptacle ampere ratings for ac circuits shall not be less than the feeder or branch-circuit overcurrent device ampere rating. Table 210.21(B)(2) shall not apply. Section 406.15 shall not apply.

These TIAs were created to address a change made during the last revision of the NEC. A new section 406.15 was added then, stating:

*406.15 Dimmer-Controlled Receptacles. A receptacle supplying lighting loads shall not be connected to a dimmer unless the plug/receptacle combination is a nonstandard configuration type that is specifically listed and identified for each such unique combination.*

This section is intended to address misapplication of dimmers to receptacles in residential applications. The example cited by the submitter was a dimmer feeding under-cabinet LED rope lights not designed to be dimmed. This section was added without careful consideration of the rest of the NEC

Steve Terry, Ken Vannice, Mitch Hefter, Eddie Kramer, and Mike Skinner wrote the two Tentative Interim Amendments that have now been accepted, and Vannice formally submitted them. The TIAs now exempt theatres and studios from the requirement to have nonstandard connectors. The TIAs will go through the normal proposal process during the next revision cycle to make them regular parts of the text.

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## **NEMA Launches ANSI-Accredited Lighting Systems Committee**

The National Electrical Manufacturers Association (NEMA) announces the launch of ASC 137 Lighting Systems Committee. This committee has received approval from the American National Standards Institute (ANSI) Executive Standards Council as an Accredited Standards Committee (ASC). This approval is the culmination of a multi-month process and will allow the committee to write American National Standards within its scope. The full article is at <http://www.nema.org/news/Pages/NEMA-Launches-New-ANSI-accredited-Lighting-Systems-Committee.aspx>. Interested parties may contact Megan Hayes at [megan.hayes@nema.org](mailto:megan.hayes@nema.org) to learn more about or to join this committee.

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## FCC Media Bureau Seeks Comment on TiVo Petition

TiVo Inc. has filed a petition for a waiver or clarification of Section 76.640(b)(4)(iii) of the Commission's rules that require cable operators to "ensure that the cable-operator-provided high definition set-top boxes . . . shall comply with an open industry standard that provides for audiovisual communications including service discovery, video transport, and remote control command pass-through standards for home networking." TiVo's boxes do not use an open industry standard. TiVo is arguing for a waiver, or for FCC clarification that the rule is still in effect, or for an additional nine months to implement the open industry standard in the boxes that it sells to cable operators.

The FCC asks for comments on the petition by 6 October 2014. Comments may be filed by using ECFS, by using the Federal Government's eRulemaking Portal, or by filing paper copies. More information is available at [https://apps.fcc.gov/edocs\\_public/attachmatch/DA-14-1290A1.pdf](https://apps.fcc.gov/edocs_public/attachmatch/DA-14-1290A1.pdf).

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## FCC Approves Google's TV Bands Database for Operation

The FCC's Office of Engineering and Technology has granted approval for Google, Inc. to operate its "TV bands database system" with new procedures for registration of certain protected facilities. The FCC's Part 15 rules require that unlicensed devices operating on TV white spaces (e.g., wireless UHF microphones) contact an authorized database system to obtain a list of channels that are available for their operation at their individual locations and operate only on those channels. The Google database is available at: <http://www.google.org/spectrum/whitespace/index.html>. Check it out! (Plenty of spectrum open in North Dakota.) More information is available at [https://apps.fcc.gov/edocs\\_public/attachmatch/DA-14-1309A1.pdf](https://apps.fcc.gov/edocs_public/attachmatch/DA-14-1309A1.pdf) and [https://apps.fcc.gov/edocs\\_public/attachmatch/DA-14-1308A1.pdf](https://apps.fcc.gov/edocs_public/attachmatch/DA-14-1308A1.pdf).

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## DIN Hosts Workshop on Technical Textiles

On 20 October 2014, DIN will host a workshop called Technical Textiles. Innovations in fiber materials have exposed a market for technical textiles, also known as smart textiles. Fiber-reinforced composites are used in the automotive, aerospace, and wind energy industries, where lightweight construction is a high priority. Through the research and development of new natural and man-made fibers, lighter, sustainable materials can be produced. A flyer—in German—for the workshop may be downloaded [from DIN's website](#).

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## WTO Technical Barrier to Trade Notifications

The U.S. Department of Commerce's service, Notify U.S., recently has announced a few notices as WTO Technical Barriers to Trade that may be of interest to *Standards News* readers. If you have a problem with one of these WTO TBT notifications, you can protest it through your representative to the WTO. In the US, that is NIST ([notifyus@nist.gov](mailto:notifyus@nist.gov)). See <http://ec.europa.eu/enterprise/tbt/> for European TBT objections.

### Brazil Notification BRA/561/BRA (BRA/561 )

**Date issued:** 3 September 2014

**Corrigendum type:** Addendum

**Correction type:** Correction with full text

**Corrigendum:** This addendum aims to inform that the Technical Regulation for LED lamps (light-emitting diode) notified as a draft under the document G/TBT/N/BRA/561 was adopted as the final text through the Inmetro Ordinance Number 389, 25 August 2014 (Portaria Inmetro N° 389, de 25 de Agosto de 2014), published in the Brazilian Official Journal N° 164, pages 119 and 120, 27 August 2014.a

**Full text:**

[https://tsapps.nist.gov/notifyus/docs/wto\\_country/BRA/corrigenda/pdf/BRA561\\_add\\_1\(portuguese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/corrigenda/pdf/BRA561_add_1(portuguese).pdf)

### Ecuador Notification ECU/16/ECU (ECU/16 , Add.1 , Add.2 , )

**Date issued:** 3 September 2014

**Corrigendum type:** Addendum

**Correction type:** Correction with full text

**Corrigendum:** The Republic of Ecuador hereby advises that the first revision (1R) of Technical Regulation (RTE) No. 006 "Portable fire extinguishers and fire-fighting agents" of the Ecuadorian Standardization Institute (INEN), the draft version of which was notified in document G/TBT/N/ECU/16/Add.2 of 18 October 2013, has been issued pursuant to Resolution No. 14 033 of 20

January 2014 of the Under-Secretariat for Quality of the Ministry of Industry and Productivity, published in Official Journal No. 180 of Monday 10 February 2014.

**Full text:**

[https://tsapps.nist.gov/notifyus/docs/wto\\_country/ECU/corrigenda/pdf/ECU16\\_add\\_3\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ECU/corrigenda/pdf/ECU16_add_3(spanish).pdf)

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## **ANSI Public Review Announcements**

The following documents have been announced for public review by ANSI. Please send your comments before the deadline to the person indicated and to ANSI's Board of Standards Review at [psa@ansi.org](mailto:psa@ansi.org).

**Due 20 October 2014**

### **BSR B11.26-201x, Functional Safety for Equipment (Electrical/Fluid Power Control Systems) - Application of ISO 13849 - General Principles for Design (new standard)**

This American National Standard provides guidance in understanding and implementing safety-related control functions (functional safety) as they relate to electrical, electronic, pneumatic, hydraulic components and systems.

Single copy price: \$175.00

Order from and send comments to: David Felinski, [dfelinski@b11standards.org](mailto:dfelinski@b11standards.org)

### **BSR/CEA 2010-B-201x, Standard Method of Measurement for Subwoofers (revision and redesignation of ANSI/CEA 2010-A-2012)**

This standard defines a method for measuring the audio performance of powered and passive subwoofers. The revision will include adding the maximum continuous SPL output capability measurement, as well as providing a reporting of the combined SPL (continuous & peak) tempered with a defined crest factor signal. Single copy price: \$82.00

Order from and send comments to: [standards@ce.org](mailto:standards@ce.org)

### **INCITS/ISO/IEC 12862:2011, Information technology - 120 mm (8,54 Gbytes per side) and 80 mm (2,66 Gbytes per side) DVD recordable disk for dual layer (DVD-R for DL) (identical national adoption of ISO/IEC 12862:2011 and revision of INCITS/ISO/IEC 12862:2009 [2009])**

ISO/IEC 12862:2011 specifies the mechanical, physical and optical characteristics of a 120 mm and an 80 mm dual layer DVD recordable disk to enable the interchange of such disks. It specifies the quality of the prerecorded, unrecorded and recorded signals, the format of the data, the format of the information zone, the format of the unrecorded zone, and the recording method, thereby allowing for information interchange by means of such disks. This disk is identified as a DVD recordable disk for dual layer (DVD-R for DL).

Single copy price: \$314.00

Order from: <http://www.incits.org>

Send comments to: [comments@itic.org](mailto:comments@itic.org)

### **BSR/NECA 409-201X, Standard for Installing and Maintaining Dry-Type Transformers (revision of ANSI/NECA 409-2009)**

This standard describes the installation and maintenance procedures for single- and three-phase general purpose dry-type distribution and power transformers and associated accessories rated 600 volts AC or less, and 0.25 kVA or more. This publication applies to indoor and outdoor, ventilated and non-ventilated, two-winding transformers used for supplying power, heating, and lighting loads for commercial, institutional, and industrial use in nonhazardous locations both indoors and outdoors.

Single copy price: \$40.00

Order from and send comments to: Diana Brioso, [diana.brioso@necanet.org](mailto:diana.brioso@necanet.org)

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## **BSI Public Review Announcements**

BSI Standards has announced draft documents for public review that might be of interest to *Standards News* readers. The documents may be commented on at <http://drafts.bsigroup.com/>.

**Due 14 November 2014**

### **ISO 17745 Steel wire ring mesh panels - Definitions and specifications**

The international standard specifies the characteristics of steel wire ring net panel for retaining of unstable slopes controlling and preventing rock falls and loose debris flow along roads, highways and railway,

produced from metallic-coated steel wire or advanced metallic coating. Anchors and nails for fixing of steel mesh to the unstable slope are subject to other standards.

#### **ISO 17746 Steel wire rope mesh panels - Definitions and specifications**

The international standard specifies the characteristics of steel wire rope net panels and rolls for retaining of unstable slopes controlling and preventing rock falls and loose debris flow along roads, highways and railway.

**Due 30 November 2014**

#### **BS 5306-9 Fire extinguishing installations and equipment on premises – Part 9: Recharging of portable fire extinguishers – Code of practice**

This part of BS 5306 gives recommendations for the recharging of portable fire extinguishers. This part of BS 5306 also gives recommendations for components, gas cartridges, propellants and refill media for extinguishers.

**Due 7 December 2014**

#### **EN 388 Protective gloves against mechanical risks**

This European Standard specifies requirements, test methods, marking and information to be supplied, for protective gloves against the mechanical risks of abrasion, blade cut, tear, puncture and impact.

#### **EN 16778 Protective gloves. The determination of Dimethylformamide in gloves**

This test method specifies the determination of Dimethylformamide (DMFa – CAS N° 68-12-2) in glove materials.

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### **CSA Public Review Announcements**

The CSA Group has announced a draft document for public review that might be of interest to *Standards News* readers. To participate in the public review, please visit: <http://publicreview.csa.ca/>.

**Due 11 November**

#### **C22.2 No. 55 Special Use Switches (New Edition)**

This Standard applies to manually operated and mechanically operated special use switches that are

- (a) for use on dc, ac/dc, or ac only; and
- (b) rated at not more than
  - (i) 60 A at 250 V or less; or
  - (ii) 30 A or 2 hp at 600 V or less; and
- (c) intended for use in accordance with the Canadian Electrical Code, Part I and General Requirements – Canadian Electrical Code, Part II, CAN/CSA C22.2 No. 0.

This Standard does not apply to:

- (a) switches forming parts either of electrothermal appliances or automatic temperature-responsive switches;
- (b) switching mechanisms built into lampholders covered in CSA Standard C22.2 No. 43;
- (c) general use switches covered in CSA Standard C22.2 No. 111;
- (d) solid-state single-phase motor speed controls covered in CSA Standard C22.2 No. 156;
- (e) dimmers covered in CSA Standard C22.2 No. 184.1;
- (f) clock-operated switches covered in CSA Standard C22.2 No. 177;
- (g) switches for use in hazardous locations.
- (h) solid state lighting controls covered in CSA Standard C22.2 No. 184

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### **New ANS Projects**

ANSI has announced the following new projects that might materially affect *Standards News* readers—or at least be interesting to them. Contact the developer if you (a) want to be involved in the project, or (b) object to the project and wish it to be abandoned, or (c) if you would like to point out that its scope is covered by an existing standard, thereby possibly making the project redundant or conflicting.

**BSR C78.53-201x, Electric Lamps, Performance Specifications for Direct Replacement LED (Light Emitting Diode) Lamps** (new standard)

This standard describes the electrical and mechanical characteristics of LED Lamps that are direct replacements for existing ANSI standardized non-LED lamps. Lamps covered in this standard contain LED-based light sources. Direct replacement is defined as LED lamps that shall not require modification of existing equipment.

Contact: Karen Willis, [Karen.Willis@nema.org](mailto:Karen.Willis@nema.org)

**BSR/NSF 455-1-201x, Good Manufacturing Practices for Cosmetics** (new standard)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of cosmetic products to ISO 22716 Good Manufacturing Practices (GMPs) for cosmetics as well as incorporating additional retailer requirements. It refers to the requirements for GMPs applicable to all cosmetics. It will assist in the determination of adequate facilities and controls for cosmetic manufacture with sufficient quality to ensure suitability for intended use.

Contact: Rachel Brooker, [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

**BSR/HFES 200-201x, Human Factors Engineering of Software Interfaces** (revision of ANSI/HFES 200-2008)

Human Factors Engineering of software interfaces for personal, business, and educational use. Applies to home and mobile computing and to interactive voice response applications.

Contact: Lynn Strother, [lynn@hfes.org](mailto:lynn@hfes.org)

**BSR Z136.9-201x, Standard for Safe Use of Lasers in Manufacturing Environments** (revision of ANSI Z136.9-2013)

This standard provides recommendations for the safe use of lasers and laser systems in manufacturing that operate at wavelengths between 0.18 mm and 1 mm. The objective of the revision is to update and improve the standard created to supply reasonable and adequate guidance for the safe use of lasers and laser systems employed in all manufacturing environments.

Contact: Barbara Sams, [bsams@lia.org](mailto:bsams@lia.org)

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## Final Actions on American National Standards

The standards actions listed below have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator, as applicable.

**ANSI/ASA S1.26-2014**, Methods for Calculation of the Absorption of Sound by the Atmosphere (revision of ANSI/ASA S1.26-1995 (R2009)): 28 August 2014

**ANSI/ASHRAE/USGBC/IES Addendum 189.1ay-2014**, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011): 26 August 2014

**ANSI/ASHRAE/USGBC/IES Addendum 189.1bx-2014**, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011): 26 August 2014

**ANSI/ASQ/ISO 14044-2014**, Environmental management - Life cycle assessment - Requirements and guidelines (identical national adoption of ISO 14044:2006): 27 August 2014

**ANSI/ASQ/ISO 10001:2014**, Quality management - Customer satisfaction - Guidelines for codes of conduct for organizations (identical national adoption of ISO 10001:2007): 27 August 2014

**ANSI/ASQ/ISO 10003:2014**, Quality management - Customer satisfaction - Guidelines for dispute resolution external to organizations (identical national adoption of ISO 10003:2007): 27 August 2014

**ANSI/ASQ/ISO 10004:2014**, Quality management - Customer satisfaction - Guidelines for monitoring and measuring (identical national adoption of ISO 10004:2012): 27 August 2014

**ANSI/ASQ/ISO 10008:2014**, Quality management - Customer satisfaction - Guidelines for business-to-consumer electroniccommerce transactions (identical national adoption of ISO 10008:2013): 27 August 2014

**ANSI/ASQ/ISO 10018:2014**, Quality management - Guidelines on people involvement and competence (identical national adoption of ISO/TR 10018:2012): 27 August 2014

**ANSI/ASQ/ISO 14031:2014**, Environmental management - Environmental performance evaluation - Guidelines (identical national adoption of ISO 14031:2013): 27 August 2014

**ANSI/ASQ/ISO 14040:2014**, Environmental management - Life cycle assessment - Principles and framework (identical national adoption of ISO 14040:2006): 27 August 2014

**ANSI/ASQ/ISO 14051:2014**, Environmental management - Material flow cost accounting - General framework (identical national adoption of ISO 14051:2011): 27 August 2014

**ANSI/ASQ/ISO 14063:2014**, Environmental management - Environmental communication - Guidelines and examples (identical national adoption of ISO 14063:2006): 27 August 2014

**ANSI ASSE Z359.15-2014**, Safety Requirements for Single Anchor Vertical Lifelines and Fall Arrestors for Personal Fall Arrest Systems (new standard): 25 August 2014

**ANSI/ASSE Z359.11-2014**, Safety Requirements for Full Body Harness (new standard): 25 August 2014

**ANSI/ASQ/ISO 14006-2014**, Environmental management systems - Guidelines for incorporating ecodesign (identical national adoption of ISO 14006:2011): 8 September 2014

**ANSI/AWS B1.11M/B1.11-2014**, Guide for the Visual Examination of Welds (new standard): 8 September 2014

**ANSI/ISA 12.02.02-2014**, Recommendations for the Preparation, Content, and Organization of Intrinsic Safety Control Drawings (new standard): 8 September 2014

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## Draft IEC and ISO Standards

This section lists proposed standards that the International Electromechanical Commission (IEC) and International Organization for Standardization (ISO) are considering for approval. *Standards News* readers interested in reviewing and commenting on a document should order a copy from their national representative and submit their comments through them. (The IEC and ISO don't want to hear from you directly.) Comments from US citizens on IEC documents should be sent to Charles T. Zegers at [czegers@ansi.org](mailto:czegers@ansi.org). Comments from US citizens regarding ISO documents should be sent to Karen Hughes at [isot@ansi.org](mailto:isot@ansi.org). The deadline for comments is noted.

**100/2385/NP, IEC 62608-2**: Multimedia home network configuration - Basic reference model - Part 2: Operational model, 5 December 2014

**108/564/CD, IEC 62911/Ed1**: Audio, video and information technology equipment - Routine electrical safety testing in production, 31 October 2014

**110/600/CD, IEC 62906-5-2 Ed.1**: Laser display and devices - Part 5-2: Optical measuring methods of speckle, 31 October 2014

**8/1369/DC**, Future revision of IEC 60038:2009 - Standard voltages for LVDC distribution, 24 October 2014

**77A/866/CD, IEC 61000-3-2 (f1)**: Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase), 2 January 2015

**77A/867/CD, IEC 61000-3-2 (f2)**: Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase), 2 January 2015

**77A/869/CD, IEC TR 61000-1-7:** Electromagnetic compatibility (EMC) - Part 1-7: General - Power factor in single phase systems under non-sinusoidal conditions, 28 November 2014

**65C/768/CDV, IEC 61784-5-x A1 Ed.2:** Industrial communication networks - Profiles - Part 5-x: Installation of fieldbuses - Installation profiles for CPF x, 21 November 2014

**77/465/CD, IEC 61000-6-1:** Electromagnetic Compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments, 21 November 2014

**77/466/CD, IEC 61000-6-2 Ed. 3:** Electromagnetic Compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments, 21 November 2014

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## Recently Published IEC & ISO Documents

Listed here are documents recently approved by the IEC and ISO. The prices shown are for purchases from ANSI's eStandards Store, <http://webstore.ansi.org/>. Prices elsewhere may be different.

**ISO/TS 20245:2014**, Cross-border trade of second-hand goods, \$77.00

**ISO/IEC 18000-7:2014**, Information technology - Radio frequency identification for item management - Part 7: Parameters for active air interface communications at 433 MHz, \$314.00

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## TSP Meeting Schedule

The Stage Lifts Working Group normally meets by Webex on the second Monday of each month. For more information, contact Kurt Pragman at [kurt@pragmanassociates.com](mailto:kurt@pragmanassociates.com).

The following meetings will be held at the Westgate Las Vegas Resort and Casino in Las Vegas, NV. (formerly the Las Vegas Hotel, LVH)

Meeting Group	Time	Day
Control Protocols Working Group	09:00 - 13:00	Thursday 20 November 2014
Control Protocols BSR E1.33 TG	10:00 - 18:00	Monday 24 November 2014
Electrical Power Working Group	19:00 - 23:00	Friday 21 November 2014
Floors Working Group	14:00 - 17:00	Thursday 20 November 2014
Fog & Smoke Working Group	09:00-13:00	Wednesday 19 November 2014
Photometrics Working Group	08:00 - 10:00	Friday 21 November 2014
Rigging BSR E1.4-2 TG	13:00 - 17:00	Thursday 20 November 2014
Rigging BSR E1.22 TG	08:00 - noon	Wednesday 19 November 2014
Rigging BSR E1.47 TG	08:00-12:00	Thursday 20 November 2014
Rigging BSR 1.56 TG	13:00 - 17:00	Thursday 20 November 2014
	08:00 - 12:00	Friday 21 November 2014
Rigging Working Group	19:00 - 23:00	Wednesday 19 November 2014
Technical Standards Council	14:00 - 18:00	Wednesday 19 November 2014

The January 2015 meetings, which would normally be held face-to-face at the Marriott Solana in Westlake, Texas, have been canceled. Those working groups and task groups needing to meet in early 2015 will do so by teleconference. TSP meeting information can be found at <http://tsp.plasa.org/tsp/meetings/index.php>.

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## Investors in Innovation

The Technical Standard Program is financially supported by PLASA and by companies and individuals who make undirected donations. The Investors in Innovation program recognizes those companies and individuals who have helped fund the TSP. The Investors in Innovation include:

### VISIONARY (\$10,000 AND UP)

LDI  
ProSight Specialty Insurance  
United States Institute for Theatre Technology

### INNOVATOR (\$3,000 - \$9,999)

Barbizon Lighting Company  
ETC  
Texas Scenic Co.

### DEVELOPER (\$1,000 - \$2,999)

Candela Controls, Inc.  
H&H Specialties Inc.  
J&M Special Effects  
Pathway Connectivity Solutions  
Stage Equipment and Lighting  
Ultratec Special Effects Inc.

### TRENDSETTER (\$500 - \$999)

Designlab Chicago / Interesting Products  
Doug Fleenor Design, Inc.  
IATSE  
InterAmerica Stage, Inc.  
John T. McGraw  
MDG Fog Generators Ltd.  
Oasis Stage Werks  
Alan M. Rowe  
Vincent Lighting Systems  
Steve A. Walker & Associates  
Ralph Weber

### GROUNDBREAKER (\$200 - \$499)

Boston Illumination Group, Inc.  
Louis Bradfield  
ELS / Entertainment Lighting Services  
Hot Springs Convention Center & Summit Arena  
IATSE Local 514  
Indianapolis Stage Sales & Rentals, Inc.  
TEI Electronics, Inc.

### SUPPORTER (\$100 - \$199)

Earl Girls, Inc.  
Tony Giovannetti  
IATSE Local 80  
IATSE Local 631  
Eddie Kramer  
Lightstream, Inc.  
Musique Xpress Lights, Inc.  
Stageworks, Inc.  
Strohmeier Lighting, Inc.

The donations are undirected; they go to support the Technical Standards Program in general, and not any particular Working Group or any particular standard or project.

If you would like to help support the Technical Standards Program in its work, please consider joining the Investors in Innovation. Information about becoming an Investor in Innovation is available at <http://tsp.plasa.org/invest>.

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## TSP at LDI 2014

The following sessions will take place in November as part of the LDInnovation and Technology Conference:

### Thursday, 20 November

1:30-3:00pm

**P01: *Cool Things That ACN and RDM Are Already Doing***

These days, modern lighting protocols all seem to be a confusingly jumbled soup of letters. And no one's actually using them, right? So, what's the point of having ACN and RDM when we've still got DMX? This talk is dedicated, not to the new protocols themselves, but to the cool things that they're already making happen. Panelists: Maya Nigrosh, ETC; Philip Nye, Acuity Brands, Inc.; Peter Willis, Howard Eaton Lighting, Ltd

3:30pm-5:00pm

**P02: *Rescue Planning* - Bill Sapsis, Sapsis Rigging Inc., 1.5 ETCP Renewal Credits**

Personal fall protection systems can save a worker from serious injury or death, but there must be a way to rescue the worker safely. The length of time a person can hang in a fall arrest harness without medical complications is short. "Call the fire department," is rarely a viable option. What do you do? This session will explain.

### Friday, 21 November

9:00-10:30am

**P03: *Outdoor Structures: What's New In ANSI E1.21 And Why Old Is Too Old*, .75 ETCP Renewal Credits**

Members of PLASA's Rigging Working Group explain how ANSI E1.21 has been revised to cover more than stage roofs and to give better guidance on who "the user" is. Also how Operations Management Plans need to be venue and event-specific. Learn how relying on decades old load tables and engineering analysis may get you into serious trouble.

Panelists: Tray Allen, James Thomas Engineering; Adrian Forbes-Black, Total Structures; Greg Hareld, Kleege Industries; Jeff Reder, Clark-Reder; Elmer Veith, Total Structures

11:00am-12:30pm

**P04: *Billions Of Color Options: The Best And Worst Part About LEDs***

LED lights are here to stay, but turning them on and getting them the same color twice is not as simple as switching on the reading light by your bed. Advanced abstracted control systems go a long way to simplifying some of these tasks, but getting what you want on stage can be daunting, if you don't take the time to understand what the console and lights do and how they interact with each other. This seminar will help you understand the technology in solid-state lighting so that you can use it easily and quickly, allowing your audience to appreciate it even if they are unaware of how complex it may be. Robert Bell and Mike Wood outline the fundamental problems with using solid state lighting and getting the color you expect.

Panelists: Robert Bell, Pathway Connectivity Solutions; Mike Wood, Mike Wood Consulting

1:30pm-3:00pm FREE TO ALL ATTENDEES WITH A BADGE

**P05: *Standards: A Session For Absolutely Everyone***

So, maybe you've heard of standards before, but you're unsure what they are, where they came from, who uses them, how to use them, or where to get them. Maybe you're more knowledgeable than that, but need help interpreting some of the information. The point of this session is to illustrate the importance of standards on buyers, sellers, designers, manufacturers, and users of entertainment technology. Everyone — the person who hung the light, the person that pulls the rope, the person that owns the building where the light has been hung— should be aware of the ANSI standards that affect them and their work. This session will help you along.

Panelists: Karl Ruling and Erin Grabe, PLASA; Richard Nix, Entertainment Structures Group

3:30pm-5:00pm

**P06: *RDMNet: An Overview*, 0.75 ETCP Renewal Credits**

Come learn the latest developments on RDMNet, the next advancement coming in communication protocols. RDMNet allows RDM communication to be extended over Ethernet, similar to how sACN allows DMX512 to be used over Ethernet. This presentation will cover the basics of RDMNet, including the discovery process, the network model, and some of the new parameters introduced.

Panelists: Scott Blair, Revolution Display/VER; Simon Newton, Open Lighting Project

### **Saturday, 22 November**

9:00am-10:30pm

P07: *Stage Edges: To Fall or Not to Fall*, 0.75 ETCP Renewal Credits

Falls from stages, many resulting in significant injuries, have become a major issue in the entertainment industry. This session is intended to help identify possible ways to prevent these accidents, and satisfy regulatory requirements, without affecting the artistic vision. The session will also introduce you to Recommended Practice for the Prevention of Falls from Theatrical Stages and Raised Performance Platforms, a draft being considered for publication by PLASA's Technical Standards Program.

Moderator: Jerry Gorrell, Theatre Safety Programs

Panelists: Fred Kosiewski, Walt Disney Company; Karl Ruling, PLASA

11:00am-12:30pm

P08: *Listed Switchboards And SJ Power Cords: Changes To The NEC*, 1.5 ETCP Renewal Credits

The National Electrical Code (ANSI/NFPA 70) continues to adapt to new technologies such as LED lighting and photovoltaic power. Learn from the experts—all members of NEC Panel 15— about the changes in the new edition. This session will explore the entertainment technicians' items of interest in the Code, how they affect your daily work, and how they came to be included.

Moderator: Mitch Hefter, Philips Lighting

Panelists: Ken Vannice, Ken Vannice LLC; Steve Terry, Electronic Theatre Controls; Eddie Kramer, IATSE Local 1

1:30pm-3:00pm

P09: *I've Got My Halloween Fog Machine! They're All The Same, Right?*

PLASA's Fog & Smoke Working Group has published several American National Standards dealing with fog and smoke effects, the machines that produce them, and the ways to test for safe levels in your production. This session will help you understand the differences between commercially available fog machines, the fluids that go into them, and will teach you how to check compliance with the exposure limits written into Actors' Equity contracts.

Panelists: Brad Dittmer, Stage Labor of the Ozarks; Karl Ruling, PLASA; Larry Schoeneman, Designlab Chicago

3:30pm-5:30pm

P10: *The Technician's Tool Kit*, 1.5 ETCP Renewal Credits

This class will explore a wide range of tools - including PLASA's ANSI standards - that are available to the technician, helping them to be more productive and safer on the job. Using the right tool for equipment inspection, troubleshooting control networks, and to check out electrical systems can save time, lives, and headaches. This session will cover common to complex system issues, and the application of the right tool for the right job.

Panelists: Milton Davis, Doug Fleenor Design, Inc.; Roger Lattin, IATSE Local 728; Richard Wolpert, Union Connector Company

### **Standards on the Stage**

The following sessions will take place in the PLASA booth. We will share the online schedule when available.

#### **BSR E1.43: Guidance for Performer Flying Systems** By Bill Gorlin

For over three years, Bill Gorlin has been leading a task group committed to drafting a standard for performer flying systems. Earlier this year, their hard work put the document through its first public review, which means it is one step closer to becoming an American National Standard. In this session, Bill will explain the document's intent, and the time-line for getting such an important document into the hands of the people for which it was written.

#### **I went to LDI 2014: I got a lot of t-shirts, and I didn't miss this 15 minute session!** By Erin Grabe

There are entertainment technology standards available for free download at <http://tsp.plasa.org/freestandards>. Knowing that the standards exist is half the battle.

**A Guided Tour of ANSI E1.4 – The Manual Counterweight Rigging Systems Suite** By Richard Nix  
Richard Nix gives a fifteen-minute tour of the 30+ page ANSI E1.4 - 2014, Entertainment Technology - Manual Counterweight Rigging Systems. E1.4 describes the design and construction of manually powered counterweight rigging systems necessary for their safety. Work is being done to expand it to cover manual systems without counterweights and dead-hung battens.

**E1.15 Boom & Base Assemblies: No tipping allowed.** By Richard Nix  
Do you ever feel overloaded, or maybe just a little out-of-balance? Join us at the PLASA booth for a 15-minute crash course in Boom and Base Assemblies. Learn how to get rid of that instability as we relate past experiences and dare to push an average boom and base assembly to its limits.

**ANSI E1.2 Design, Manufacture and Use of Aluminum Trusses and Towers: What the Users of Truss Need to Know** By Miriam Paschetto  
It is important for members of the entertainment community to comply with the various ANSI Standards on Entertainment Technology. But it can be daunting to figure out which specific sections from the many standards apply specifically to the Users of truss. This presentation will identify who is a User and what you as a User should know about the E1.2 standard.

**ProSight Specialty Insurance** By ProSight  
Join ProSight Specialty Insurance and members of their team, as they detail the risk-management guide, *Entertaining Safety*, and share what they've learned over the past year from our industry.

**Luminaire Inspection Guidance with ANSI 1.32** By Karl Ruling  
Avoid shocking experiences and burning sensations! Karl Ruling explains ANSI E1.32, a simple outline for checking conventional stage and studio luminaires to see if they need repair.

**Makeup Mirror Lighting** By Karl Ruling  
Beating the inverse square law and looking good at the same time! Karl Ruling explains the latest TSP project to develop a specification for good makeup mirror lighting, including distribution, angles of incidence, color rendering, color temperature, and levels of illumination.

**Rigging Standards: Saving the World One Theatre at a Time** By Bill Sapsis  
Join us, as Bill Sapsis tells you how it really is in the Rigging Working Group, and why he sometimes has such a big hammer at his meetings!

**Anti-counterfeit – Do The Right Thing!** By Steve Warren  
Lighting designers and specifiers have a strong hand in driving the development of our industry, but inferior quality counterfeits can place their shows and reputations at risk. The rise of copies and counterfeiting has placed our industry under threat—jeopardizing rental companies and manufacturers alike. We need to work together to ensure that the research and development we're all proud of is able to continue well into the future. Join us for this session to learn how to manage and enforce counterfeit issues by listening to and exchanging some shared experiences.

**Firmware Uploads Via RDM** By Peter Willis  
This project, one of the latest to come out of the PLASA Control Protocol Working Group's standards development efforts, will provide a platform upon which manufacturers can offer the ability to transfer new or updated operating code to a device remotely, using the DMX wiring connection. Peter Willis, chair of the Task Group developing this standard will demonstrate how the use of such standards will help reduce your inventory and training costs, and make life simpler for manufacturers and users alike.

**HELP! — Why do my lights flicker?** By Peter Willis and Doug Fleenor  
We have all been there: the rig is up, the cables or wireless networks installed, the rehearsals are underway and we deserve a drink at the bar. But no, the lights are flickering, something is wrong and the pressure is on us to find a solution. This presentation, by renowned industry experts Doug Fleenor and Peter Willis (aka "Dr DMX" and "Professor RDM") looks at the simple things you can check in your DMX installation and equipment selection that just might alleviate the problem and get you the refreshment you deserve.

## How Do I Get the Same Color Twice? By Mike Wood

With incandescent lights and gel it was easy. Put the same gel in front of of a luminaire from any manufacturer and you got, more or less, the same color on stage. Now we have LEDs instead of incandescent lamps; and with every manufacturer of LED luminaires using their own version of RGB, how is it possible to get the same color out of two different lights? A new standard in development, PLASA BSR E1.54, seeks to provide a standardized color space and color language for control desks to be able to communicate color to luminaires in an unambiguous, and manufacturer agnostic, manner. The goal? Simple. Make the same color twice. Please.

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## PLASA Standards News

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