

Minutes  
**Technical Standards Committee**  
Sunday, 24 January 2010  
Dallas/Ft. Worth Marriott Solana  
Westlake, Texas

**Chairman:** Mike Garl; James Thomas Engineering

**Recording secretary:** Karl G. Ruling; ESTA

**TSC members attending:**

Larry Schoeneman; Designlab Chicago, Inc.; P  
Steve Terry; Electronic Theatre Controls; P  
Edwin S. Kramer; I.A.T.S.E. Local 1; P  
Ken Vannice; Leviton Manufacturing Co., Inc.; P  
Mike Wood; Mike Wood Consulting LLC; P  
Ron Bonner; PLASA; A  
Mitch Hefter; Entertainment Technology (Royal Philips Electronics); P  
Bill Sapsis; Sapsis Rigging, Inc.; P  
Richard Cadena; Projection, Light & Staging News (Timeless Communications Corp.); P  
Jerry Gorrell; Theatre Safety Programs, representing USITT; P

**Visitors:**

Ruth Rossington; PLASA  
Roger L. Lattin; IATSE Local 728  
Alan M. Rowe; IATSE Local 728  
Michael Lay; Philips Strand Lighting  
Martin Moore

**1 Opening remarks**

Mike Garl called the meeting to order at 09:00. He thanked for coming and for working on ESTA's TSP projects.

**2 Attendance and membership**

Garl noted that there were eleven voting members present out of a voting body of 15, more than enough to allow the conduct of business.

**2.1 Taking attendance**

A yellow sign-in sheet was circulated.

**2.2 Welcome to visitors**

Garl welcomed the visitors.

**2.3 Introductions**

Ruth Rossington, the Executive Director at PLASA, was the newcomer to the group, and was introduced to the assembly. All the other people present were well known to each other.

**2.4 Consensus body**

The full consensus body during this meeting, including those not present, was:

Name	Company or Representation	Voting status
William Conner	Bill Conner Associates LLC, representing the Amer. Society of Theatre Consultants	P

Name	Company or Representation	Voting status
Eugene Leitermann	Theatre Projects Consultants, Inc., representing the Amer. Society of Theatre Consultants	A
James Niesel	Arup	P
Larry Schoeneman	Designlab Chicago, Inc.	P
Steve Terry	Electronic Theatre Controls	P
Edwin S. Kramer	I.A.T.S.E. Local 1	P
Mike Garl	James Thomas Engineering, Inc.	P
Ken Vannice	Leviton Manufacturing Co., Inc.	P
Mike Wood	Mike Wood Consulting LLC	P
Matthew Griffiths	PLASA	P
Ron Bonner	PLASA	A
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	P
Bill Sapsis	Sapsis Rigging, Inc.	P
John Johnston	The PERA Council	P
Bill Groener	Tim Hunter Design, LLC	P
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)	P
Jerry Gorrell	Theatre Safety Programs, representing USITT	P
Louis Bradfield	representing USITT	A
	Total votes	15

### 3 Approval of minutes from the previous meeting

See TSCmin11-2009.pdf

Steve Terry moved that the draft minutes of the last meeting be approved as written. The motion was seconded and then accepted with a show of hands.

### 4 Call for patents

Mike Garl read the following statement aloud to the assembly:

"ESTA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent and copyright disclosures to implement its intent. ESTA does not conduct patent or copyright searches and does not warrant that its standards contain no protected intellectual property.

"In keeping with the open disclosures policy, I ask if anyone present wishes to notify the Technical Standards Committee of the existence of a patent or copyright or other intellectual property that might protect material in a standard being developed by a working group. You need not be the holder of the patent or copyright to notify the Technical Standards Committee of its existence."

No protected intellectual property was brought to the attention of the TSC.

### 5 Anti-trust statement, read aloud to the assembly

Mike Garl read the following statement aloud to the assembly:

"The ESTA Board of Directors and the leadership of this Technical Standards Committee will reject or nullify any actions that unlawfully restrain trade. Anyone who feels that such an action is being or has been taken is requested to bring that matter to the attention of the chair immediately. Anyone who feels

that actions in restraint of trade have been taken and not properly annulled is requested to notify the ESTA president immediately.

"ESTA legal counsel has informed us that violations of the anti-trust laws can have serious consequences. Individuals engaged in certain unlawful conduct can be found criminally liable. An individual convicted of a criminal violation of the Sherman Act may be fined as much as \$1,000,000 and imprisoned for up to ten years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

Karl Ruling, ESTA's Technical Standards Manager, held up one of the easy-to-read pamphlets to show that copies were available at the meeting.

No restraint of trade issues were reported to the TSC.

## **6 Approval of agenda**

Some items were added to the draft agenda:

- 8.2.2.5 dust standard fog and smoke
- 9.2 PLASA/TSP planning meeting report.
- 10.1 regarding free standards.

Larry Schoeneman moved that the modified agenda be accepted. The motion was seconded and then approved with a show of hands.

## **7 Reminder about ESTA contact information on the website**

Lori Rubinstein was not present, so Mike Garl reminded people to check the website.

## **8 Old business and standing reports**

### **8.1 Financial reports**

#### **8.1.1 Treasurer's report**

See TSP\_Financials31Dec2009.pdf.

Mike Wood reported that 2009 was our last year for a cash accounting budget. We are switching to accrual accounting in 2010.

He summarized the TSP's financial situation, saying we did very well, mainly because we received three years of VAT refunds in one year. He offered thanks to all the companies that allowed ESTA to keep their VAT refund.

He also said that the working groups have been very frugal. Staff and insurance are our largest expenses. There is nothing extraordinary in this.

Wood mentioned the proposed budget for 2010. He said it includes \$5,000 for funding an ISO/PC 250 US TAG run by ANSI. We won't spend that if the TAG isn't formed.

#### **8.1.2 Status of contributions and pledges**

No discussion.

#### **8.1.3 Accounting of TSP documents sold**

See TSP PublicationSales31Dec2009.pdf

No discussion.

#### **8.1.4 TSP Marketing**

No report.

## 8.2 Old Business

### 8.2.1 TSM's report

#### 8.2.1.1 Report on status of documents: ones in process, ones stable, ones needing action or of concern

See PrjctsSmmry2010-01.pdf (The file is appended to these minutes)

No questions.

#### 8.2.1.2 Working group documents or projects requiring action by the TSC

The Ethernet recommended practice documents published by the TSP were discussed. They are old. The CPWG had wanted them withdrawn, but then decided they should still be available since they are useful for older systems, but should not be represented as state-of-the-art advice.

Mike Wood moved that the documents be marked as obsolete and offered for free. The motion was seconded, and then approved with a show of hands.

### 8.2.2 Optional reports by working and task group leaders on active projects

#### 8.2.2.1 Camera Cranes

No report.

#### 8.2.2.2 Control Protocols

Mike Lay reported the significant actions and events from the recent CPWG meeting.

##### 8.2.2.2.1 Harting switch offer

He noted that Harting has stated its willingness to loan us whatever Ethernet switches we might need for demonstrations of our protocols at LDI.

##### 8.2.2.2.2 Editorial process

There was a discussion of the editorial committee process. The consensus was that we shorten the process by moving at one time to send a document to the editorial committee and to vote to approve the output of the editorial committee as an ANS.

##### 8.2.2.2.3 BSR E1.20

Steve Terry moved that the TSC approve the motion to offer BSR E1.20 for public review, that had come out of the recent CPWG meeting. The motion was seconded, and then approved with a roll call vote, with everyone present voting Yes, eleven out of a voting body of 15.

Name	Company or Representation	Voting status	Yes	Yes with comments	No with reasons	Abstain	Not present
William Conner	Bill Conner Associates LLC, representing the Amer. Society of Theatre Consultants	P					X
Eugene Leitermann	Theatre Projects Consultants, Inc., representing the Amer. Society of Theatre Consultants	A					
James Niesel	Arup	P					X
Larry Schoeneman	Designlab Chicago, Inc.	P	Y				
Steve Terry	Electronic Theatre Controls	P	Y				
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y				
Mike Garl	James Thomas Engineering, Inc.	P	Y				
Ken Vannice	Leviton Manufacturing Co., Inc.	P	Y				

Name	Company or Representation	Voting status	Yes	Yes with comments	No with reasons	Abstain	Not present
Mike Wood	Mike Wood Consulting LLC	P	Y				
Matthew Griffiths	PLASA	P					
Ron Bonner	PLASA	A	Y				
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	P	Y				
Bill Sapsis	Sapsis Rigging, Inc.	P	Y				
John Johnston	The PERA Council	P					X
Bill Groener	Tim Hunter Design, LLC	P					X
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)	P	Y				
Jerry Gorrell	Theatre Safety Programs, representing USITT	P	Y				
Louis Bradfield	representing USITT	A					
<b>Total votes</b>		<b>15</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>

#### 8.2.2.2.2 E1.30-1

Steve Terry moved that the TSC approve the motion from the CPWG to offer E1.30-1 for public review. The motion was seconded, and then approved with a roll call vote, with everyone present voting Yes, eleven out of a voting body of 15.

Name	Company or Representation	Voting status	Yes	Yes with comments	No with reasons	Abstain	Not present
William Conner	Bill Conner Associates LLC, representing the Amer. Society of Theatre Consultants	P					X
Eugene Leitermann	Theatre Projects Consultants, Inc., representing the Amer. Society of Theatre Consultants	A					
James Niesel	Arup	P					X
Larry Schoeneman	Designlab Chicago, Inc.	P	Y				
Steve Terry	Electronic Theatre Controls	P	Y				
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y				
Mike Garl	James Thomas Engineering, Inc.	P	Y				
Ken Vannice	Leviton Manufacturing Co., Inc.	P	Y				
Mike Wood	Mike Wood Consulting LLC	P	Y				
Matthew Griffiths	PLASA	P					
Ron Bonner	PLASA	A	Y				
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	P	Y				
Bill Sapsis	Sapsis Rigging, Inc.	P	Y				
John Johnston	The PERA Council	P					X
Bill Groener	Tim Hunter Design, LLC	P					X
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)	P	Y				
Jerry Gorrell	Theatre Safety Programs, representing USITT	P	Y				
Louis Bradfield	representing USITT	A					
<b>Total votes</b>		<b>15</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>

### **8.2.2.3 Electrical Power**

#### **8.2.2.3.1 BSR E1.24**

Mitch Hefter reported on the progress with BSR E1.32, the luminaire inspection guide, and said that a letter ballot will be issued to the working group to approve a motion to accept the resolutions and to offer another review of the draft ANS.

#### **8.2.2.3.2 ANSI E1.24 revision**

Mitch Hefter reported on the progress with revising ANSI E1.24, the pin connector configuration standard. He said that the task group will informally poll pin connector manufacturers to see if the revised document is congruent with their practices, or at least acceptable to them. Steve Terry gave more detail on the technical issues being addressed by the revision.

#### **8.2.2.3.3 ANSI E1.19**

Mitch Hefter moved that the TSC approve the changes to the Notice and Disclaimer in ANSI E1.19, the GFCI standard, that the working group had approved. The motion was seconded. There was discussion. The motion was approved with a unanimous show of hands, with all eleven voters present voting Yes.

#### **8.2.2.3.4 BSR E1.18**

Mitch Hefter reviewed the 11-year history of BSR E1.18, the draft standard for the selection and use of single-conductor portable power feeder cable, and the lack of recent progress or consensus on how to move forward with the project. Steve Terry said that the task group had developed a voluminous set of comment resolutions that the need to be acted on—the task group has done what it is supposed to do—but the working group has declined to act on them. Terry said that the TSC should compel the working group to act on the proposed resolutions. He said this can be done by balloting them on the comment resolutions, comment by comment. Jerry Gorrell said that if we can't get the working group to act on the proposed resolutions, moving the document forward, the TSC should kill the project.

Balloting comment by comment was explained as being the process used by the NFPA, but Terry noted that the ballot in the NFPA comes after technical deliberation. No technical deliberation has happened in the working group, but he argued that the letter ballot would be a way to force that deliberation.

Jerry Gorrell moved that the TSC direct the Technical Standards Manager to send the working group a comment by comment letter ballot. The motion was seconded. The motion was decided by a show of hands, with eight voting in favor, three abstentions, and no negative votes, which constituted a supermajority voting in the affirmative. The ballot will be a 28-day letter ballot.

### **8.2.2.4 Flame Resistance Task Group**

No news.

### **8.2.2.4 Floors**

No news.

### **8.2.2.5 Fog and Smoke**

A proposal for a dust effects standard had been forwarded to the TSC, although with less than two weeks lead time. No one objected to acting on it at this meeting.

Larry Schoeneman reported that the Fog & Smoke Working Group had voted to accept the dust effect proposal.

Eddie Kramer moved that the TSC affirm the F&S Working Group's acceptance of the dust effect project. The motion was seconded, and then approved by a supermajority of the TSC with a show of hands.

#### **8.2.2.6 Followspot Position**

Karl Ruling reported that the Followspot Position Working Group had drafted and approved a set of comment resolutions for the third review of BSR E1.28, the followspot position planning guide. He needs to send the resolutions back to the commenters and the proposed standard to the TSC Editorial Committee.

#### **8.2.2.7 Photometrics**

No report.

#### **8.2.2.8 Rigging**

Bill Sapsis reported on the significant actions and events from the recent RWG meeting.

##### **8.2.2.8.1 ANSI E1.1**

The working group will consider revising ANSI E1.1, the wire rope ladder standard, to increase the load capacity.

##### **8.2.2.8.2 2006 standards**

Work to revise, reaffirm, or withdraw the standards approved in 2006 will start in March.

##### **8.2.2.8.3 BSR E1.6-2 through 4, the parts dealing with chain hoists**

The working group voted to removed "serially manufactured" from the titles.

##### **8.2.2.8.4 BSR E1.6-4**

There is no measurable progress on on E1.6-4, reported Sapsis.

##### **8.2.2.8.5 ANSI E1.8**

Bill Sapsis moved that the TSC affirm the start of the Rigging Working Group project to reaffirm ANSI E1.8. The motion was seconded and then approved with a unanimous show of hands.

##### **8.2.2.8.6 BSR E1.18 and BSR E1.39**

Sapsis reported on the progress of E1.38 and E1.39. He said that the task group wants to merge E1.38 into the roof standard, ANSI E1.21, and change that standard to cover a range of portable structures, not simply roofs.

##### **8.2.2.8.7 Uncrowding the crowded RWG meetings**

The working group wants to stay together, reported Sapsis. Eddie Kramer and Bill Sapsis will research video conferencing, to see if it might be possible to have some people participate without having to be in the room. This also would obviate travel for many of the RWG's members. Some are having to travel long distances for one meeting, which is rather expensive. There was further discussion of the size of the working group and the number projects.

#### **8.2.3 Review of action items from last meeting not covered above**

The website's meeting files have been updated. Upcoming meeting agendas are not posted there and will not be because only approved meeting documents will go on the website.

### **8.3 Reports of affiliated organizations**

#### **8.3.1 ASTC**

No report.

#### **8.3.2 PLASA**

Ron Bonner reported a problem with the machinery directives saying that long-link chain shall not be used for lifting. Bonner lobbied with the health and safety authorities, and now STAC chain is looked at as material in the load path but is not the lifting medium.

He also reported on the national academy for fire training having a fire, which destroyed the fire trucks, and resulted in the administrators being cited for not having proper fire safety documentation.

### **8.3.3 USITT**

Jerry Gorrell reported on NFPA 289, Standard Method of Fire Test for Individual Fuel Packages, being added to NFPA 101, The Life Safety Code, by the AXM (the technical committee for the NFPA 101 standard), to be used in place of NFPA 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Film, for evaluating the flammability of stage scenery. It also would be applied to exhibit booths. USITT will actively oppose it, because it makes getting approval for scenery prohibitively expensive and because this proposed use of NFPA 289 in NFPA 101 would be for a purpose that NFPA 289 itself says it is not appropriate. Steve Terry urged Karl Ruling to file an official response from ESTA opposing this change to NFPA 101.

Gorrell also reported that the FCC has set a date for clearing the 700 megahertz band, and no wireless microphones will be allowed to use it after that date.

### **8.3.4 VPLT**

No report.

## **9 New business**

### **9.1 Policy on multi-national standards**

Should we have a policy?

Steve Terry said he thinks we need to have a policy on the development of multi-national standards. He suggested that we decide at the start of a project whether a standard should be a multi-national standard or not. Ruling agreed.

Eddie Kramer noted that NFPA has things in the National Electrical Code (NFPA 70) that really don't apply to the US because the materials aren't used here, but they are kept in because the NEC is used in Africa.

Steve Terry moved that the standards initiation form have a tick-box for indicating whether a document is intended to be a multi-national standard or not. Justification should be provided. The motion was seconded and then approved with a show of hands.

### **9.2 PLASA/ESTA TSP planning meeting**

Ruling read aloud the summary document that had come from the PLASA/ESTA TSP planning meeting at LDI (19Nov2009meeting.pdf). There was a brief discussion.

### **9.3 Standards reference boilerplate**

Mike Lay described the project within the CPWG to provide consultants and other specification writers with standard language to reference our standards. Mike Garl said that he's asked working group chairs to do similar things for the other working groups. We'll still need to decide where or how to publish this.

### **9.4 Standards for free**

Martin Moore said that he didn't realize how much money we made from selling standards so he shall withdraw his suggestion that we publish our standards for free. There was a further discussion of the cost of standards in general.

## **10 Other business**

None.

## **11 Schedule for future meetings**

Mike Garl announced that the next meeting is scheduled for Tuesday, 30 March 2010, from 13:00 to 17:00 at the Marriott Kansas City Downtown in Kansas City, Missouri.

## **12 Adjournment**

Larry Schoeneman moved that the meeting adjourn. The motion was seconded. Hearing no objections, Mike Garl declared the meeting adjourned at 11:46.

**TSC Membership and Contact Information as of 22 February 2010**

<b>Name</b>	<b>Company</b>	<b>Parent company or representation (Primary sort field)</b>	<b>Voting status</b>
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P
Eugene Leitermann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A
James Niesel	Arup	Arup	P
Larry Schoeneman	Designlab Chicago, Inc.	Designlab Chicago, Inc.	P
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P
David Johnson	Live Design	Penton Media	O
Marian Sandberg	Live Design	Penton Media	O
Matthew Griffiths	PLASA	PLASA	P
Ron Bonner	PLASA	PLASA	A
Mark Engel	Rosco Laboratories	Rosco Laboratories	O
Mitch Hefter	Entertainment Technology	Royal Philips Electronics	P
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P
JR Reid	JR Lighting, Inc.	The PERA Council	P
Leigh Blicher	Videofax	The PERA Council	A
Bill Groener	Tim Hunter Design, LLC	Tim Hunter Design, LLC	P
Richard Cadena	Projection, Light & Staging News	Timeless Communications Corp.	P
Jerry Gorrell	Theatre Safety Programs	USITT	P
Louis Bradfield	Louis Bradfield	USITT	A
Florian von Hofen	VPLT	VPLT	O



**TSM's Report on TSP Projects  
For the 24 January 2010 TSC Meeting**

Possible TSC action items are in green.

**1 PUBLISHED DOCUMENTS WITH NO WORK NEEDED OR ONGOING AT THIS TIME**

**1.1 Application Guide for ANSI E1.3 - 2001 Entertainment Technology Lighting Control Systems 0 to 10V Analog Control Specification (CPWG)**

**1.2 Camera crane operator's handbook (CCWG)**

**1.3 Introduction to Modern Atmospheric Effects, 4th edition (FSWG)**

**1.4 ANSI E1.1 - 2006, wire rope ladders (RWG)**

**1.5 ANSI E1.2 - 2006, aluminum towers and trusses (RWG)**

**1.6 ANSI E1.3 - 2001 (R2006), 0-10V analog control specification (CPWG)**

**1.7 ANSI E1.4 - 2009, manual rigging systems (RWG)**

**1.8 ANSI E1.5 – 2009, Entertainment Technology - Theatrical Fog Made With Aqueous Solutions Of Di- And Trihydric Alcohols**

**1.9 ANSI E1.9 - 2007, reporting photometric data revision (PHWG)**

**1.10 ANSI E1.11 - 2008, DMX512-A revision (CPWG)**

**1.11 ANSI E1.14 - 2001 (R2007), recommendations for inclusions in fog equipment manuals (FSWG)**

**1.12 ANSI E1.15 - 2006, boom & base assemblies (RWG)**

**1.13 ANSI E1.16 - 2002 (R2006), configuration standard for metal halide ballast power cables (EPWG)**

**1.14 ANSI E1.21 - 2006, portable roof systems (RWG)**

**1.15 ANSI E1.22 – 2009, fire safety curtain systems (RWG)**

**1.16 ANSI E1.25 - 2006, flat-wall photometry basic conditions (PHWG)**

**1.17 ANSI E1.26 - 2006, floor energy absorption (FLWG)**

**1.18 ANSI E1.27-1 - 2006, portable DMX512 cabling (CPWG)**

**1.19 ANSI E1.27-2 – 2009, Entertainment Technology -- Recommended Practice for Permanently Installed Control Cables for Use with ANSI E1.11 (DMX512-A) and USITT DMX512/1990 Products (CPWG)**

**1.21 ANSI E1.29 – 2009, Product Safety Standard for Theatrical Fog Generators that Create Aerosols of Water, Aqueous Solutions of Glycol or Glycerin, or Aerosols of Highly Refined Alkane Mineral Oil (FSWG)**

**1.22 ANSI E1.30-3 – 2009, EPI 25, Time Reference in ACN Systems Using SNTP and NTP (CPWG)**

**1.23 ANSI E1.30-7 – 2009, EPI 29, Allocation of Internet Protocol Version 4 Addresses to ACN Hosts (CPWG)**

**1.24 ANSI E1.30-10 – 2009, EPI 32 Identification of Draft Device Description Language Modules (CPWG)**

**1.25 ANSI E1.31 – 2009, Lightweight streaming protocol for transport of DMX512 using ACN (CPWG)**

**1.26 ANSI E1.34 - 2009, Entertainment Technology-Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues (FLWG)**

**1.27 ANSI E1.35 - 2007, lens quality measurements for pattern projecting luminaires intended for entertainment use (PHWG)**

**1.28 ANSI E1.36 - 2007, model procedure for permitting the use of tungsten-halogen incandescent lamps and stage and studio luminaires in vendor exhibit booths in convention and trade show exhibition halls (PHWG)**

## **2 PUBLISHED DOCUMENTS WITH WORK NEEDED BUT NOT YET STARTED**

### **ANSI E1.8 - 2005, speaker enclosures for overhead suspension (RWG)**

We need to act on this now, this year.

## **3 ACTIVE PROJECTS AND PROJECTS UNDER CONSIDERATION**

Things meriting possible action by the TSC at this meeting are highlighted in green.

### **3.1 Camera Cranes Working Group**

#### **3.1.1 BSR E1.12, camera crane standard**

This project is moving slowly. I can report no measurable progress.

#### **3.1.2 Other camera cranes working group projects: none**

### **3.2 Control Protocols Working Group**

#### **3.2.1 BSR E1.17, ACN**

We've started a project to correct errors in the existing ANSI E1.17. A motion was made to offer some revised parts of the standard for public review at the July CPWG meeting, and the documents were finally presented at the November 2009 meeting and a motion made to offer them for public review. I recently sent them off to the TSC Editorial Committee for vetting before I issue the first review letter ballot. It's a mess of work for the editorial committee. There are 16 source documents and two DDL files written in XML. I don't expect the committee to vet the latter, since they are supposed to be machine-read docs, but they are part of the package, and the whole package is a lot of arcane—but important—stuff.

### **3.2.2 BSR E1.20, a revision of ANSI E1.20-2006, Remote Device Management**

The working group accepted the one comment from the last public review, which had pointed out that we should use the correct SI symbol for second, which is "s" and not "S." They figured (and I do, too) that this can be considered an editorial change, not substantive, and so moved that the draft document be accepted as an American National Standard. I've sent it off to the TSC Editorial Committee for vetting. After that it will go to the working group for a letter ballot.

### **3.2.3 BSR E1.30-1, EPI 23 Device Identification Subdevice**

We have a set of proposed comment resolutions for the CPWG to consider at the January 2010 meeting.

### **3.2.4 BSR E1.30-2, EPI 24 Internet Protocol Properties Subdevice**

It received one comment in the first public review, which ran from 11 July through 25 August 2008. The comment needs to be resolved.

### **3.2.5 BSR E1.30-4, EPI 26, (DDL) Extensions for DMX512 and E1.31 Devices**

We have a set of proposed comment resolutions for the CPWG to consider at the January 2010 meeting.

### **3.2.6 BSR E1.30-5, EPI 27 Operation of SDT on Wireless Networks**

It received one comment in the first public review, which ran from 11 July through 25 August 2008. The comment needs to be resolved. Dan Antonuk reported at the November 2009 meeting that proposed changes to ACN may make this EPI redundant.

### **3.2.7 BSR E1.30-6, EPI 28 Independent Device Location Properties**

It received one comment in the first public review, which ran from 11 July through 25 August 2008. The comment needs to be resolved. Dan Antonuk reported at the November 2009 meeting that proposed changes to ACN may make this EPI redundant.

### **3.2.8 BSR E1.30-8, EPI 30 Time Code Properties**

It received one comment in the first public review, which ran from 11 July through 25 August 2008. The comment needs to be resolved.

### **3.2.9 BSR E1.30-9, EPI 31 MIDI System Exclusive Properties**

It received one comment in the first public review, which ran from 11 July through 25 August 2008. The comment needs to be resolved.

### **3.2.10 BSR E1.33-200x, Extensions to E1.31 for Transport of ANSI E1.20 (RDM)**

Work needs to continue on a first draft. At the July meeting Scott Blair predicted a "real document" by the November meeting, but it hasn't been submitted yet.

### **3.2.11 BSR E1.37-200x—Additional Message Sets for ANSI E1.20, Remote Device Management**

We have a draft of a part 1 document to discuss and perhaps act on at the CPWG meeting. The problem I see with this particular document is that there is nothing in the title or anywhere else that quickly tells the reader what additional message sets this part 1 covers. How might it be different from a future part 2? I plan to raise this issue at the CPWG meeting.

### **3.2.12 Recommended Practice for Ethernet Cabling Systems in Entertainment Lighting Applications and the Supplement to the Recommended Practice for Ethernet Cabling Systems in Entertainment Lighting Applications**

It's way old and we don't sell many copies anymore. The vast majority of the working group voted to remove it for sale from our website at the November 2009 meeting. (25 Yes, one abstention, no objections, two voters absent.) What say you, TSC?

### **3.2.13 Possible New Projects**

#### **3.2.13.1 Control desk task light connector standard**

Paul McMaster, who suggested this project at the July CPWG, said that it wasn't worth the effort at the November 2009 meeting, so it is off the agenda.

#### **3.2.13.2 DMX over USB**

Paul McMaster has now suggested that we consider a project to standardize sending DMX512-type data over USB serial links. "We're standardising DMX/RDM over Ethernet, so why not USB as well?" That's about the extent of his case for the project.

### **3.2.14 Side Projects**

The CPWG has been working on some fairly simple projects to promote our standards in the consultant/specifier community. The latest is some suggested boilerplate to add to specifications, e.g.:

A. Products utilizing the "DMX512" control protocol shall comply with the rules and recommendations of the following standard: Entertainment Services & Technology Association (ESTA), ANSI E1.11 – 2008 - Entertainment Technology - USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories.

B. Products utilizing the "ACN" control protocol shall comply with the rules and recommendations of the following standard: Entertainment Services & Technology Association (ESTA) ANSI E1.17 – 2006 - Entertainment Technology - Architecture for Control Networks.

## **3.3 Electrical Power Working Group**

### **3.3.1 BSR E1.18, Recommended practice for selection, installation, and use of portable feeder cable**

The E1.18 project is split into two parts: an E1.18-1 covering conventional star-topology distribution systems and an E1.18-2 part covering ring systems. The second has been put on hold indefinitely. The E1.18-1 part was in public review from 9 January through 23 February 2009. A set of possible comment resolutions was submitted to the working group by a task group headed by Jerry Gorrell for the November 2009 meeting, but the consensus of the working group was that trying to address Canadian Electrical Code issues along with NEC issues in one document had made the document a confusing mess. So, Gorrell was instructed to remove all the Canadian-specific material and working group members were instructed to send him comments on the rest. I believe he received no comments, but he has removed the Canadian-specific material and created another version of the draft standard, which has been forwarded to the working group for this January 2010 meeting. He has also revised the draft comment resolutions so they match what has been done to the standard.

There was discussion at the November 2009 meeting of what to do to make E1.18 apply to Canada—assuming that we don't want to simply ignore Canadian portable power feeder cable issues (some think we should). We could have an appendix that shows the differences for Canada, or we could do a separate document that is similar to the US-specific document but that is congruent with standards, regulations, and working practices in Canada. I have recommended the latter. It could use the E1.18-2 number without a hassle from ANSI. If we ever get to a ring-main document, it could be E1.18-3.

### **3.3.2 ANSI E1.19 - 2009, recommended practice for use of Class A GFCIs (EPWG)**

As this is being written, the working group is voting to add text to the Notice and Disclaimer of the standard to address Keith Woods's concern that people might think that following E1.19 would obviate following the entire Canadian Electrical Code:

"The Entertainment Services and Technology Association does not approve, inspect, or certify any installations, procedures, equipment or materials for compliance with codes, recommended practices or standards. Compliance with an ESTA standard or recommended practice, or an American National Standard developed by ESTA is the sole and exclusive responsibility of the manufacturer or provider and is entirely within their control and discretion. Any markings, identification or other claims of compliance do not constitute certification or approval of any type or nature whatsoever by ESTA.

"ESTA neither guarantees nor warrants the accuracy or completeness of any information published herein and disclaim liability for any personal injury, property or other damage or injury of any nature whatsoever, whether special, indirect, consequential or compensatory, directly or indirectly resulting from the publication, use of, or reliance on this document.

"In issuing and distributing this document, ESTA does not either (a) undertake to render professional or other services for or on behalf of any person or entity, or (b) undertake any duty to any person or entity with respect to this document or its contents. Anyone using this document should rely on his or her own independent judgment or, as appropriate, seek the advice of a competent professional in determining the exercise of reasonable care in any given circumstance.

"This document does not list all the requirements for compliance with local electrical codes. It is intended to supplement local codes, and not to replace or to nullify them. Users of this document are advised to consult their local electrical codes in addition to this document."

So far the votes are all Yes votes in sufficient number to carry the motion. The ballot closes at the end of 15 January 2010, the day on which I am writing this report.

### **3.3.3 BSR E1.24, pin connector intermatatability standard**

Work has started to revise ANSI E1.24 – 2006 and to make it more palatable to the UL 498 standards panel. This includes stripping out the informative, non-mandatory material and reformatting it to look like a NEMA connector configuration standard. A draft has been sent to the working group for discussion or action at this set of meetings.

### **3.3.4 BSR E1.32, luminaire maintenance guidance**

The document was offered for public review which ended on 25 August 2008. The EPWG had a set of comment resolutions and a revised draft standard to consider at the March 2009 meeting, but the discussion at the meeting was mostly about what the draft standard should cover, a topic over which there was some disagreement. A revised scope statement was drafted and voted on by letter ballot after the meeting, and it was accepted by a majority of the working group's voters. Work on revising the document continues with this new scope. The EPWG has a new version of the draft standard for the January meeting. I don't know if the changes in this most recent version, assuming that the working group accepts them, would have an impact on the draft comment resolution document.

### **3.4 Fire Resistance Task Group**

The task group members had been meeting regularly to refine the problem, to break it down into specific issues, and to then write some document or documents to address the issues, but work has stalled. They settled on two projects: one to draft a fire resistance information document along the lines of the Introduction to Modern atmospheric effects, and the second project—one of more immediate concern—to work with the State of California Flame Retardant Committee on its revision of the California flame retardant regulations. Tom Andrews had put himself forward as the main author of the information document, but he has found himself putting his efforts into the California issue and his business, Turning Star.

### **3.5 Floors Working Group**

No active projects

### **3.6 Followspot Position Working Group**

#### **3.6.1 BSR E1.28, followspot position planning guidance document**

The document was offered for public review most recently from 13 November through 28 December 2009 and received 26 comments. As I write this, the working group is circulating a set of draft resolutions and I'll get the results of this "round robin" by Monday night, January 18. They hope to come to an agreement on the resolutions at the meeting Thursday night, January 21.

It seems to me that at this point we've gotten all the well thought-out comments and ardent objections and are now getting comments from people who have half an idea but who have not read the document closely or who have particular causes they want to push, such as ensuring that followspot positions do not favor left-handed operators and do favor right-handed operators.

#### **3.6.2 Other Followspot Position Working Group projects: none**

### **3.7 Fog & Smoke Working Group**

#### **3.7.1 BSR E1.23, general fog effect planning standard**

The working group drafted and accepted a set of comment resolutions for the comments that were received from the one commenter during the last public review, which ended at the EOD November 9. I sent the resolutions back to the commenter and he has until February 6 to ask for a reconsideration. No substantive changes were made to BSR E1.23 to resolve the comments. The working group then entertained a motion to accept the document as an ANS. The proposed standard has been sent to the TSC Editorial Committee for vetting before I issue the letter ballot to accept the standard.

#### **3.7.2 Possible dust effect standard**

A possible dust atmospheric effect standard was discussed at the last Fog & Smoke Working Group meeting, and Mike Wood was given the assignment of drafting a proposal. He's done that, and discussing it is the major item of business for the working group at this meeting. If it passes the working group, I'll forward it to you and you can decide if the TSP's resources should be used on this.

### **3.8 Photometrics Working Group**

The Photometrics Working Group is considering a project to write a standard to describe the output of LED-based luminaires. There is really no good way at this time to measure their output in color and to compare their efficacy with that of conventional white-light luminaires. Mike Wood has been assigned the task of drafting a proposal, and the working group will discuss it and possibly act on it at its March 2010 meeting.

### **3.9 Rigging Working Group**

#### **3.9.1 BSR E1.6-1, powered winch hoist systems**

It's in public review through 15 February 2010.

#### **3.9.2 BSR E1.6-2, powered serially produced chain hoist systems**

It's in public review through 15 February 2010.

#### **3.9.3 BSR E1.6-3, safe use of serial manufactured electric chain hoists in the entertainment industry**

The working group voted by letter ballot to offer the first draft for public review, with most voting in favor, but there were negative votes, which increased during the recirculation. The final vote was enough to move the document forward to public review, but the task group took it back and revised it to resolve the objections. A new version of the document was then considered at the last working group meeting and another letter ballot for a first review issued. Most people are in favor of the review, but three people (all

new to the working group since the last letter ballot) want changes to the document and voted No. The No votes have triggered a recirculation through February 4.

**3.9.4 BSR E1.6-4, Control of Serially Manufactured Electric Chain Hoists in the Entertainment Industry**

This project was created at the Summer 2007 RWG meeting as a split-off from the BSR E1.6-3 project. The task group is still working on a first draft.

**3.9.5 BSR E1.38 - 20xx, Temporary Ground-Supported Structures Used to Support Equipment in the Production of Outdoor Entertainment Events, Excluding Stage Roofs**

This is a new project to establish basic requirements for the structural design, manufacture, use, and maintenance of temporary ground-supported structures used to support equipment, such as video walls, followspot towers, and audio mixing platforms. Structures for the public are outside the scope. The working group hasn't seen a draft yet, but the project has only existed since the July 2009 meeting.

**3.9.6 BSR E1.39 - 20xx, Entertainment Technology – Recommendations for the Use of Fall Protection on Temporary Suspended and Ground-Supported Structures**

This is another new project, intended to establish minimum requirements for the selection and use of personal fall arrest systems on temporary structures in the entertainment industry. It also establishes minimum requirements for manufacturers and owners of these structures being used as work platforms. The working group has a draft for the January meeting that is intended to show progress. It is not intended to be acted on, I believe.

All the January 2010 working group meeting documents distributed as of today, January 15, are available at . . . .

Respectfully submitted,



Karl G. Ruling  
Technical Standards Manager