

**Minutes**  
**Technical Standards Committee**  
Sunday, 25 July 2010  
**Marriott Solana**  
Westlake, TX

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

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

**Consensus body and members present:**

Name	Company or representation	Voting Status	Present
William Conner	Bill Conner Associates LLC, representing the Amer. Society of Theatre Consultants	P	
Eugene Leitermann	Theatre Projects Consultants, Inc., representing the Amer. Society of Theatre Consultants	A	X
James Niesel	Arup	P	X
Larry Schoeneman	Designlab Chicago, Inc.	P	X
Steve Terry	Electronic Theatre Controls	P	X
Edwin S. Kramer	I.A.T.S.E. Local 1	P	
Mike Garl	James Thomas Engineering, Inc.	P	X
Ken Vannice	Leviton Manufacturing Co., Inc.	P	X
Mike Wood	Mike Wood Consulting LLC	P	X
Matthew Griffiths	PLASA	P	
Ron Bonner	PLASA	A	X
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	P	X
Bill Sapsis	Sapsis Rigging, Inc.	P	
JR Reid	JR Lighting, Inc., representing The PERA Council	P	
Leigh Blicher	Videofax, representing The PERA Council	A	
Bill Groener	Tim Hunter Design, LLC	P	X
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)	P	X
Jerry Gorrell	Theatre Safety Programs, representing USITT	P	X
Louis Bradfield	representing USITT	A	X
Lori Rubinstein	ESTA (ex officio, non-voting)	O	X

**Visitors:** Michael Lay; Strand Lighting  
Roger Lattin; IATSE Local 728  
Alan Rowe; IATSE Local 728  
Kent Jorgensen; IATSE Local 80

**1 Opening remarks**

Mike Garl called the meeting to order at 9:00.

## **2 Attendance and membership**

### **2.1 Taking attendance**

A quadrangle green attendance sign-in sheet was circulated.

### **2.2 Welcome to visitors**

The visitors were welcomed.

### **2.3 Introductions**

Those present introduced themselves.

## **3 Approval of minutes from the previous meeting**

See TSCmin03-2010.pdf.

Mitch Heffer asked for the reference to his injury in the draft minutes to be removed. He moved that the minutes so modified be accepted. The motion was seconded and then approved by a show of hands.

## **4 Call for patents, to be read aloud to the assembly**

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."

Nothing was disclosed.

## **5 Anti-trust statement, to be 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."

The Technical Standards Manager held up a few copies of the easy-to-read pamphlet to show that copies were available at the meeting.

No actions possibly in restraint of trade were reported.

## **6 Approval of agenda**

Steve Terry asked for a discussion of the ESTA patent statement to be added in section 9.

Mike Wood proposed to do a demonstration of the on-line voting system under 9 also.

Lori Rubinstein asked to offer a report on an OSHA workshop under Other business.

Steve Terry 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]**

The reminder was issued.

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

### **8.1 Financial reports**

#### **8.1.1 Treasurer's report [Mike Wood]**

See TSP\_Financials06-30-10.pdf

Mike Wood reported that our budget is "well on target." Expenses are in control, and sponsorships are good. He noted that money not spent so far may be reallocated to other items in the budget where the money is needed.

#### **8.1.2 Status of contributions and pledges [Lori Rubinstein]**

Lori Rubinstein reported that we are hoping for another VAT refund this year, but we don't know when it will be received. USITT's contribution has not been received yet, but is still expected.

#### **8.1.3 Accounting of TSP documents sold [Lori Rubinstein]**

See TSP\_PublicationSales07-2010.pdf

Lori Rubinstein reported that we continue to sell documents. She noted that orders come in from all over the world.

#### **8.1.4 TSP Marketing [Lori Rubinstein]**

No news.

### **8.2 Old Business**

#### **8.2.1 TSM's report [Karl Ruling]**

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

See PrjctsSmmry2010-07.pdf. [It is appended to these minutes.]

There were no questions on the summary document.

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

###### **8.2.1.2.1 Approval of RWG action to revise ANSI E1.1 - 2006, the wire rope ladder standard**

The working group feels that the standard should be revised to accommodate heavier workers. Action would be needed on it no later than next year in any case. See RevisionDetails\_E1-1-2006\_05July-2010.pdf.

Mitch Heffer moved that the revision project be approved. The motion was seconded. There was discussion. The motion was approved with a show of hands.

###### **8.2.1.2.2 Approval of RWG action to reaffirm ANSI E1.2 - 2006, the aluminum tower and truss standard**

No changes are intended to the existing standard.

Mike Wood moved that the project to reaffirm ANSI E1.2 - 2006 be approved. The motion was seconded. The motion was approved with a show of hands.

#### **8.2.1.2.3 Approval of RWG action to reaffirm ANSI E1.15 - 2006, the boom and base assemblies standard**

No changes are intended to the existing standard.

Larry Schoeneman moved that the working group action to reaffirm ANSI E1.15 be approved. The motion was seconded. The motion was approved with a show of hands.

#### **8.2.1.2.4 Approval of RWG motion to offer ANSI E1.8 - 2005, the existing speaker enclosure standard, for public review for reaffirmation**

(Agenda item assumes that the RWG approves the motion on a letter ballot recirculation that closes EOD 12 July.) See E1-8\_201x\_WG\_RvwBlItTotal.pdf for the vote as of 21 June 2010.

The motion for the public review for reaffirmation carried with the required supermajority.

Mitch Hefter moved that the public review be approved. The motion was seconded. Gene Leitermann asked for a clarification of the working group vote count. The motion was approved with a show of hands, with all in favor except for one voting against.

#### **8.2.1.2.5 Approval of EPWG motion to offer BSR E1.24, the revised pin connector standard, for public review**

(Agenda item assumes that the EPWG approves the motion on a letter ballot recirculation that closes EOD 15 July.) See WG\_E1-24FrstRevwBallotSmmry.pdf for the vote as of 24 June 2010 and E1-24r3-1edtd.pdf for the draft standard.

The motion to offer the revised standard for public review was approved by the required supermajority.

Steve Terry moved that the public review be approved. The motion was seconded. There was no discussion. The motion was approved with a show of hands, with all voting in favor except for one abstaining.

#### **8.2.1.2.6 Approval of Followspot Position motion to accept BSR E1.28, the followspot position planning guidance document, as an American National Standard**

a. See E1-28r6editedClear.pdf and SmmryE1-28\_WG\_AcceptLtrBlIt.pdf for the proposed standard and the working group vote to accept it.

b. See E1-28\_3rdRevwResols.pdf for the resolutions sent to the third review commenters.

c. See E1-28ThrdRvwRebuttalSmmry.pdf for the objections from two of the third review commenters.

d. See ResponseToRebuttals.pdf, E1-28\_3rdRevwResolsr1.pdf, and FPmin03-2010r1.pdf for the working group's response to the rebuttals.

e. See ReponseReKasefang6May2010r3.pdf for a draft that the working group will be considering at its meeting of a response to Kasefang's continued objections. The draft contains the text of Kasefang's continued objections.

Mike Wood moved that BSR E1.28 be approved as an American National Standard. The motion was seconded. Jim Niesel objected to the resolution to Kasefang's rebuttal. The motion failed on a show of hands, with six opposed, six abstentions, and none in favor.

The consensus was that the response to Kasefang was confused, and that fall restraint loads should not be mixed with floor loading. The results of the TSC vote will be sent back to the working group with reasons provided by Niesel.

#### **8.2.1.2.7 Consideration of EPWG public review motion for BSR E1.32**

See BSR\_E1-32\_2006-7016r8a.pdf, RevsdResolsToJohnson.pdf, EmailOfResponseToGoddard.pdf, ResponseToGoddard.pdf, E1-32CmmntRsols-R3.pdf, and EPmin03-2010.pdf. The working group reviewed the resolutions and revised them, and sent the changes to those affected by them. No response was received from Johnson or Goddard. The original public review motion is back before the TSC.

Mitch Hefter moved that the revised BSR E1.32 be offered for public review. The motion was seconded and then approved by a supermajority with a show of hands.

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

From the March meeting minutes email:

Besides taking the next steps with BSR E1.32, other action items I can find in the draft minutes include

- \* The PERA Council identifying someone to lead the camera crane project,

Lori Rubinstein said that the PERA Council has not acted on this because they are needing to hire a new staff person.

- \* reaching out to the flame resistance task group to get them moving again,
- \* filing the LED photometrics project with ANSI,

Ruling reported these as done.

- \* publishing the boilerplate for specifiers and issuing a press release, and

Ruling reported this as done.

- \* Gene Leitermann writing an article publicizing our standards for *Construction Specifier*

Gene Leitermann said that he had not done this yet, but that he will.

### **9 New business**

#### **9.1 ANSI Audit**

Steve Terry moved that the draft response to the ANSI audit be accepted. The motion was seconded. There was discussion of the draft response, in particular the patent policy, the need for balance, and the letter ballot procedure. The motion was approved with a show hands, with all voting in favor except for one abstention.

Gene Leitermann noted that the audit was generally complimentary of the program and of Karl Ruling's competence as a manager.

Mike Wood demonstrated his new, on-line letter ballot, which was very favorably received by the TSC. It should be the way that we do letter ballots.

Mike Garl assigned a task group to work on the P&P with Karl Ruling: Steve Terry (chairman), Richard Cadena, Gene Leitermann, Mitch Hefter, Bill Conner.

#### **9.2 Report on the confirmation of the City Theatrical patent licensing letter.**

See CityTheatrical.pdf and CTI\_letterFrmGarl.pdf.

Mike Garl said that the CTI patent letter has been confirmed.

## **10 Optional Reports**

### **10.1 Reports by working and task group leaders on active projects**

#### **10.1.1 Camera Cranes**

Kent Jorgensen said he was hoping to have a report on the working group's progress, but he doesn't. Lori Rubinstein reminded him that the PERA Council is supposed to be taking the reins of this project.

#### **10.1.2 Control Protocols**

Michael Lay reported that the Kimberly Corbett had served her first meeting as co-chair, and did a fine job. He relayed Peter Willis's suggestion that June would be a better month for our summer meetings in deference to European participants.

#### **10.1.3 Electrical Power**

Mitch Hefter reported. He said that it's good that the draft standards were approved to move forward to public review at this TSC meeting.

Hefter described the process the working group is using to resolve the disagreements over the public review comment resolutions on BSR E1.18-1. At the working group meeting the group managed to work through one of six documents. The working group will do a series of teleconferences in late September to complete the task.

#### **10.1.4 Flame Resistance Task Group**

No further news.

#### **10.1.5 Floors**

No further news.

#### **10.1.6 Fog and Smoke**

Larry Schoeneman reported that the working group is considering offering a draft dust effect standard for public review.

#### **10.1.7 Followspot Position**

No further news.

#### **10.1.8 Photometrics**

Jerry Gorrell reported that we'll have a draft BSR E1.41, a standard for measuring and reporting LED luminaire output, for discussion at the LDI meeting.

#### **10.1.9 Rigging**

No additional report.

### **10.2 Reports of affiliated organizations (12:25)**

#### **10.2.1 ASTC**

Gene Leitermann reported no news, other than the lift proposal submission deadline having been missed. However, he said that Bill Conner is committed to having it ready for submission in time for the next TSC meeting.

#### **10.2.2 PLASA**

Ron Bonner said that the ESTA/PLASA merger is the main project.

He plans to do a 90-minute session at the PLASA trade show to persuade lighting manufacturers to do some sort of standardized labeling for the physical agents directive dealing with light, so employers have information that they can use to comply. He wants to make the expensive intrusion of consultants to make measurements unlikely. It would be a graphical label to show safe/unsafe distances and exposure time limits—if needed.

In regard to the merger, Lori Rubinstein reported that both memberships voted overwhelmingly in favor. The main focus now of PLASA and ESTA staff is to sort members and combine databases. This must be done in time for the elections scheduled for October 1.

### **10.2.3 USITT**

Jerry Gorrell reported that USITT has a new executive director.

He also reported that USITT approved a standard for the symbols used to label variables used in rigging calculations. It's based on Rocky Paulson's article in Protocol about the need to standardize the symbols.

### **10.2.4 VPLT**

Gar nichts.

## **11 Other business**

Lori reported that a committee is being formed by the ESTA Board to coordinate our efforts to educate people about relevant OSHA regulations, to develop safe work practices, and to let OSHA know what we are doing to help safety in the workplace.

Kent Jorgensen said that 12 states require written safety plans, and soon the federal OSHA will too. OSHA has been holding a series of workshops on their "Injury and Illness Prevention Program," which is sometimes called "I2P2."

NFPA 80, Gorrell reported that the NFPA 80 Technical Committee is soliciting proposals, with a closing date of 23 November 2010. NFPA 80 has a chapter on fire safety curtains. (See <http://www.nfpa.org/aboutthecodes/AboutTheCodes.asp?DocNum=80> )

## **12 Schedule for future meetings**

Mike Garl announce that the next TSC meeting is scheduled for Wednesday, 20 October 2010, from 13:00 to 17:00, at the Las Vegas Hilton in Las Vegas, NV. The following one will be Tuesday, 25 January 2011, 9:00 to 13:00 at Marriott Solana. The meetings will start on Saturday and end on Tuesday rather than following the usual pattern of starting on Thursday and ending on Sunday.

## **13 Adjournment**

Larry Schoeneman moved that the meeting adjourn. The motion was seconded. Hearing no objections, Mike Garl declared the meeting adjourned at 10:47.

**TSC Membership and Contact Information as of 25 August 2010**

<b>Name</b>	<b>Company</b>	<b>Parent company or representation</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 Co., Inc.	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 25 July 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 E1.3 - 2001 (R2006), 0-10V analog control specification (CPWG)**
- 1.5 ANSI E1.4 - 2009, manual rigging systems (RWG)**
- 1.6 ANSI E1.5 – 2009, Entertainment Technology - Theatrical Fog Made With Aqueous Solutions Of Di- And Trihydric Alcohols**
- 1.7 ANSI E1.9 - 2007, reporting photometric data revision (PHWG)**
- 1.8 ANSI E1.11 - 2008, DMX512-A revision (CPWG)**
- 1.9 ANSI E1.14 - 2001 (R2007), recommendations for inclusions in fog equipment manuals (FSWG)**
- 1.10 ANSI E1.16 - 2002 (R2006), configuration standard for metal halide ballast power cables (EPWG)**
- 1.11 ANSI E1.19 - 2009, recommended practice for use of Class A GFCIs (EPWG)**
- 1.12 ANSI E1.22 – 2009, fire safety curtain systems (RWG)**
- 1.13 ANSI E1.25 - 2006, flat-wall photometry basic conditions (PHWG)**
- 1.14 ANSI E1.26 - 2006, floor energy absorption (FLWG)**
- 1.15 ANSI E1.27-1 - 2006, portable DMX512 cabling (CPWG)**
- 1.16 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)**
- 1.17 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)**
- 1.18 ANSI E1.30-3 – 2009, EPI 25, Time Reference in ACN Systems Using SNTP and NTP (CPWG)**

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

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

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

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

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

**1.24 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)**

**1.25 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 (CPWG)**

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

None.

## **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**

No measurable progress. The working group hasn't met in over a year. New leadership is to be identified by the PERA Council, but I have no report on that.

#### **3.1.2 Other Camera Cranes Working Group projects**

None

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

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

The revision is in public review through August 23. I doubt that there will be many comments. The existing standard has not upset the world, and the people who would fully understand the details of the revisions are all within the CPWG.

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

The working group is voting by letter ballot to accept the draft document as an ANS. The ballot closes EOD July 29.

By the way, the TSC Editorial Committee did not deliver an edited version of the document in time for the letter ballot.

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

The working group is voting by letter ballot to accept the draft document as an ANS. The ballot closes EOD July 29. The one wrinkle with this EPI is that it assumes the revised DDL that is in the version of ACN now in public review. However, I don't foresee this running off the rails. Unless Philip Nye, Dan Antonuk, or another member of the ACN crew discover a problem with the revised version of ACN that is in public review and the DDL that is part of it, the draft revised E1.17 probably will generate no comments or no comments that require anything more than a polite version of "You just don't understand; it all works fine as it is," as a resolution.

The TSC Editorial Committee also did not deliver an edited version of the document in time for the letter ballot.

### **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. Task Group was optimistic in November 2009 that we would have a document for the USITT meeting. At that meeting, a draft document was promised for the July meeting.

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

The draft standard has been sent to the ESTA Board for approval as an American National Standard.

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

The project has been terminated. At the last CPWG meeting, Philip Nye proposed that development of EPI 27 be removed from the agenda. The document is no longer needed. The motion was seconded. The motion was approved by a supermajority on a roll call vote. I have informed the one commenter in its last public review—Philip Nye—that the project has been terminated and there will be no resolution to his comment.

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

The project has been terminated. At the last CPWG meeting, Philip Nye proposed that development of EPI 28 be removed from the agenda. The document is no longer needed. The motion was seconded. The motion was approved by a supermajority on a roll call vote. I have informed the one commenter in its last public review—Philip Nye—that the project has been terminated and there will be no resolution to his comment.

### **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 still 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 still 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. I've seen a copy, but the working group hasn't seen it yet.

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

BSR E1.37-1 is in public review through July 26. No one has commented yet. I suspect this is another draft standard for which everyone who speaks English, who understands it, and who needs it has been involved in writing it.

### 3.2.12 Possible New American National Standard Projects

None right now.

### 3.2.13 Side Projects

The CPWG is spearheading the CPWG Plugfests at our Texas meetings and the Connectivity Pavilion at LDI. This working group has also been the extremely active in planning LDI sessions.

## 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 was split into two parts: an E1.18-1 covering conventional star-topology distribution systems and an E1.18-2 part covering ring systems—or something else. E1.18-2 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 drafted, but at the January 2010 EPWG meeting no progress was made on agreeing to accept any of the resolutions. To break that jam, the TSC directed me to issue a letter ballot with a separate question for each of the 226 resolutions. I did that, creating a 143-page letter ballot.

Enough people voted on the letter ballot that at least some of the resolutions were accepted without dissent, but the ballot generated an immense amount of data and files so large that they challenged the applications at my disposal to manipulate the data into some sort of on meaningful form. After several days of work, I managed to break the data into six files of reasonable size, and working group member Lizz Pittsley has turned them into a human-readable format, a task which she managed to do over several weeks. The working group now needs to do something with the data to resolve their disagreements.

### 3.3.2 BSR E1.24, pin connector intermatability standard

ANSI E1.24 – 2006 has been revised to make it more palatable to the UL 498 standards panel. It needs at least one public review, and the working group has voted by letter ballot to start this public review—except for one voting member who doesn't like the requirements in the draft standard, so he voted "No with reasons." The vote is therefore in recirculation, but I expect it to pass before the TSC meeting so you can approve the public review motion. His reason simply doesn't make sense as an argument against public review. Furthermore, his objection to the content of the draft standard shows that he is unable to read and understand what is really a very simple, clear standard.

### 3.3.3 BSR E1.32, luminaire maintenance guidance

The document was offered for public review which ended on 25 August 2008. The EPWG sent the draft document to you to be approved for public review at the last meeting, but you rejected the resolutions. The EPWG has reviewed those comment resolutions, revised some of them and the draft standard, and the motion is now back before you, the TSC. I have sent the resolutions back to the commenters and received no response by the response deadline I gave, so I can assume with reason that they have no further opposition.

## 3.4 Fire Resistance Task Group

At the last TSC meeting decided to reach out to the task group to get them moving again. I contacted Tom Andrews, the de facto leader of the group, and he said he'd work on reviving the task group and would have a report for the TSC for this meeting. It's below. The referenced file will be sent to you.

### ESTA Fire Resistance Task Group Report

Since its inception the end of 2007 and attaining full membership in late

spring of 2008, the FRTG has researched and compiled fire codes and standards relevant to the theatrical and live event industry. We decided to focus primarily on the ICC fire and building codes, with some additional information brought in from codes from Clarke County, NYC, and jurisdictions that reference UBC and NFPA 1. The group met monthly for nearly one year and amassed a lot of information. In the late spring of 2009 the group decided that it had compiled enough information and material to begin assembling it into a booklet or pamphlet of recommended practices. At that point it was decided to not meet for a few months to allow some members of the group to begin working on the actual writing of the pamphlet, and that 'few months' break has turned into a year. There is a rough outline of the topics to be addressed and written that is attached simply so the TSC can see where we're at, and is not submitted for approval or comment. As stated above, this is a very rough outline.

Since the middle of 2009, the group has not met, and very little writing work has been done. However, members of the group have been active in other related arenas that have taken up the time that had been previously devoted to working with the FRTG, as well as some members are business owners or upper management in their companies, and with the recession have needed to spend time focusing on their business instead. In 2009 Tom Andrews worked for several months with the FDNY to revise their fire retardant applicator certification program. Additionally, starting in late 2009 Tom Andrews and Wendy Holt have been members of the California Fire Marshal's Flame Retardant Advisory Committee which is tasked with revising the California regulations regarding flame retardant chemical certification and use, and applicator certification. This has fulfilled one of the mandates of the Task Group, namely to monitor and participate in the work of other related standards/code/rules writing organizations.

This nudge from the TSC has prompted us to begin to regroup and plan our next steps. We will keep you posted, and extend our thanks for your continued support.

Regards, Tom Andrews on behalf of the FRTG members

### **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 working group voted to accept the document as an American National Standard. The motion is now before the TSC.

We still have some opposition from one public review commenter, an observer member of the working group. By the time the working group's July 22 meeting is over, the working group will have considered his objections three times. We might simply have to list him as "unresolved."

#### **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 draft standard has been sent to the ESTA Board to be approved as an American National Standard.

#### **3.7.2 BSR E1.40, dust effects**

Mike Wood is heading the task group on this. We had a first draft, at the March 31 meeting; we have a second for the 23 July meeting.

### **3.8 Photometrics Working Group**

The Photometrics Working Group will look at a first draft of BSR E1.41, a standard to describe the output of LED-based luminaires, at its LDI meeting. Mike Wood is the main-man on this one, too.

### **3.9 Rigging Working Group**

#### **3.9.1 ANSI E1.1 - 2006, wire rope ladders**

The working group has voted to revise the standard to raise the load limits. The TSC needs to approve the project.

#### **3.9.2 ANSI E1.2 - 2006, aluminum towers and trusses**

The working group has voted to reaffirm the standard. The TSC needs to approve the project.

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

It was in public review through 15 February 2010. Fifteen responses were received: 14 from individuals and one from staff at Stagecraft Industries. Three-hundred sixty-six comments were offered, but one was an entire letter to the editor of *TD&T* about the ignorance demonstrated at the "Getting from E-Stop to go" 2009 USITT session. A task group has been appointed to work on a set of possible resolutions, and the task group has started work.

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

It was in public review through 15 February 2010. Six people commented and offered 39 comments. The review was the sixth as BSR E1.6-2, the tenth if we count the four BSR E1.6 reviews before the project was split. The comments and possible resolutions were discussed by the working group at the last meeting. Work continues on drafting resolutions at a task group level.

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

It was in public review until May 3. That was its first public review. Three people responded during the public review period and offered 57 comment. Plans need to be made address the comments.

#### **3.9.6 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. A new draft has been sent to the working group for the 22 July meeting.

#### **3.9.7 ANSI E1.8, speaker enclosures**

The working group has voted by letter ballot to offer the standard for public review for reaffirmation. The motion is now before the TSC.

A minority of working group members want to revise the document for style and clarity. One person also wrote, "Since this is the ANSI standard, I think the imperial units should be included...." This is an

interesting position since ANSI's policy is that SI units are the preferred units in American National Standards. Furthermore, the United States never has used imperial units. The imperial system of units was established by the British Weights and Measures Act of 1824, and by that time the United States was not part of the British Empire. No one in voting No on the public review motion suggested changes to the requirements of the standard.

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

The working group has voted to reaffirm the standard. The TSC needs to approve the project.

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

The RWG has voted to fold the BSR E1.38 - 20xx, Temporary Ground-Supported Structures Used to Support Equipment in the Production of Outdoor Entertainment Events, Excluding Stage Roofs, project into a revision of E1.21. The two standards really cover the same sorts of structures. E1.21 would need to be revised, reaffirmed, or withdrawn next year anyway, so why not expand it to cover non-roof structures?

Assuming that the TSC would not oppose converting the BSR E1.38 project into a BSR E1.21 project, I filed a PINS with ANSI. The main problem seems to be that I have thoroughly confused Mary Weldon, the person on the receiving end of PINS form submissions. I have explained what we want to do three times, but apparently without success. I am sure this can be sorted out. The project has been announced in Standards Action.

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

This project is 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. Rocky Paulson is the main-man behind the project. The working group has a draft for the 22 July meeting that is intended to show progress. It is not intended to be acted on, I believe.

Dr. Randy Davidson wrote to me recently to ask for some guidance on standards related to fall protection on temporary structures. There is something brewing out there in field.

## **4 Conclusion**

All the July 2010 working group meeting documents distributed as of today, 14 July, are available at

<http://www.esta.org/meetingfiles/cpwg/listfiles.php>

<http://www.esta.org/meetingfiles/epwg/listfiles.php>

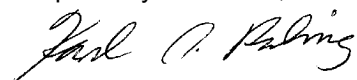
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Respectfully submitted,



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