

**Minutes**  
**Technical Standards Committee**  
**Wednesday, 29 March 2006**  
**Louisville Marriott Downtown**  
**Louisville, Kentucky**

**Chairman:** Mike Garl; James Thomas Engineering, Inc.; P

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

**Members attending:** Bill Sapsis; Sapsis Rigging, Inc.; P  
Ken Vannice; Colortran (Leviton Manufacturing Co., Inc.); P  
Edwin S. Kramer; I.A.T.S.E. Local 1; P  
Steve Terry; Electronic Theatre Controls; P  
Rodney F. Kaiser; J.R. Clancy Inc.; representing USITT ; P  
Ron Bonner; PLASA; A  
Mark Engel; Rosco Laboratories; P  
Mike Wood; Mike Wood Consulting LLC; P  
Larry Schoeneman; Designlab Chicago, Inc.; P  
Bill Groener; PRG North Bergen; P  
David Johnson; Live Design (Prism Business Media); P  
Lori Rubinstein; ESTA; ex officio

**Visitors:** Roger Lattin; IATSE Local 728  
Tim Hansen; Oasis Stage Werks  
Kent Jorgensen; IATSE Local 80

**1 Opening remarks**

Mike Garl called the meeting to order at 13:03. He thanked those attending for being there and welcomed all to Louisville.

**2 Attendance and membership**

**2.1 Taking attendance**

A blue attendance sign-in sheet was circulated. Mike Garl announced that a quorum was present.

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

Name	Company	Representing	Voting status
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A
Larry Schoeneman	Designlab Chicago, Inc.		P
Steve Terry	Electronic Theatre Controls		P
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P
Edwin S. Kramer	I.A.T.S.E. Local 1		P
Mike Garl	James Thomas Engineering, Inc.		P
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P
Mike Wood	Mike Wood Consulting LLC		P
Matthew Griffiths	PLASA	PLASA	P
Ron Bonner	PLASA	PLASA	A
Bill Groener	PRG North Bergen		P

Name	Company	Representing	Voting status
David Johnson	Live Design (Prism Business Media)		P
Mark Engel	Rosco Laboratories		P
Bill Sapsis	Sapsis Rigging, Inc.		P
Colin Waters	TMB		P
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A
Florian von Hofen	VPLT	VPLT	P
Eckart Steffens	SOUNDLIGHT	VPLT	A
			15 voters

## 2.2 Welcome to visitors

Garl welcomed the three visitors.

## 3 Approval of minutes from the previous meeting

Mitch Hefter had submitted some corrections to the draft minutes (document TSC/2006-0001) via email:

-Missing word "is" in 8.4.2 - "The RP2 for lighting graphics is in public review through March, reported Mitch Hefter."

-Missing numeral in UL standard # in 8.4.5 - "Ken Vannice reported that UL is moving toward making UL 1573 an ANSI standard . . ."

-NFPA/NEC report 8.4.7.1 should reflect that these were ROP meetings. I suggest "Mitch Hefter reported on the NEC Report on Proposal meetings that there is a new article 519 for ride control for amusement attractions. The rumored combination of 520 and 530 will not happen. The neutral power feeder conductor will not have to be derated for sine-wave dimmers. . . ."

-Duplicate wording appears in 9.4: " . . . standards management work. Gorrell said that a title would be nice, but not necessary. title nice but not necessary"

Eddie Kramer moved that the draft minutes corrected per Mitch Hefter's notes be accepted. The motion was seconded, and then accepted with a unanimous 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 patents or copyrights were brought to the attention of the assembly.

## **5 Anti-trust statement**

The following statement was read aloud to the assembly by Mike Garl:

"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 held up some of the easy-to-read pamphlets to show their availability. No restraint of trade issues were brought to the attention of the assembly.

## **6 Approval of agenda**

Steve Terry moved that the draft agenda be accepted. The motion was seconded. The motion was approved by a unanimous show of hands.

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

Lori Rubinstein and Mike Garl reminded people to check their contact information on the ESTA website.

## **8 Old business**

### **8.1 Financial reports**

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

Mike Wood said that he'd changed the format slightly again. He moved the expected support from ESTA into the revenue column so we are not showing a massive net loss.

We have not seen the invoices from the January meetings, so those are zeros. The big bill for insurance for the year has been paid.

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

Lori Rubinstein reported that the Vat refund is coming. USITT is also expected to contribute. It has been agreed, but it is not yet shown. In all, we should make our budgetary goal.

#### **8.1.3 Accounting of TSP documents sold and on-hand**

Lori Rubinstein reported that she had little activity to report. The reports from ANSI only come quarterly.

### **8.2 Working group reports [Karl Ruling, or working group chairs]**

#### **8.2.1 Camera Cranes— BSR E1.12 camera crane standard and Handbook**

Kent Jorgensen reported that the last meeting did not have a quorum, but that they got some work done on the project. Another meeting is scheduled for June to coincide with the CineGear Expo.

Jorgensen said that Chapman wants to and is willing to print a full color version of the handbook, all 1000 copies. Jorgensen is also looking at printing on waterproof paper.

Steve Terry asked how many copies of the handbook are now in users hands. Jorgensen said about 20, but he figures many hundred will be distributed soon. There are about 300 dolly grips in Hollywood alone.

## 8.2.2 Control Protocols

### 8.2.2.1 E1.11 (DMX512-A) VPLT German/English update

Ruling said that a German translation was still scheduled to be published by VPLT this year.

### 8.2.2.2 BSR E1.27-x (DMX512 cabling of various types)

Ruling reported that he had not seen a complete document yet, but that Javid Butler, the task group leader, says that a draft is ready for consideration for public review.

#### 8.2.2.2.1 BSR E1.27-1

Ruling reported that there had been no continuing objections from negative commenters, and that he had submitted the document to the ESTA Board for approval.

#### 8.2.2.2.2 Progress report on other BSR E1.27-x drafting

No report.

### 8.2.2.3 BSR E1.17 (ACN)

Steve Terry moved that TSC approve offering a revised version of BSR E1.17 ACN for public review, contingent upon if the Control Protocols Working Group voting to offer it for public review. The motion was seconded. The motion was approved on a roll call ballot, with all present (12 out of a voting body of 15) voting in favor.

Name	Company	Representing	Voting status	Vote
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A	
Larry Schoeneman	Designlab Chicago, Inc.		P	Yes
Steve Terry	Electronic Theatre Controls		P	Yes
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	
Edwin S. Kramer	I.A.T.S.E. Local 1		P	Yes
Mike Garl	James Thomas Engineering, Inc.		P	Yes
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	Yes
Mike Wood	Mike Wood Consulting LLC		P	Yes
Matthew Griffiths	PLASA	PLASA	P	
Ron Bonner	PLASA	PLASA	A	Yes
Bill Groener	PRG North Bergen		P	Yes
David Johnson	Live Design (Prism Business Media)		P	Yes
Mark Engel	Rosco Laboratories		P	Yes
Bill Sapsis	Sapsis Rigging, Inc.		P	Yes
Colin Waters	TMB		P	
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	Yes
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A	
Florian von Hofen	VPLT	VPLT	P	
Eckart Steffens	SOUNDLIGHT	VPLT	A	
				12 Yes

### 8.2.2.4 ANSI E1.3-2001, 0-10V analog control specification, reaffirmation

Steve Terry reported that it's in public review until April 12.

**8.2.2.4 BSR E1.20 (Remote Device Management)**

Karl Ruling reported that there had been no responses from negative commenters, and the document had been submitted to ANSI for acceptance as an American National Standard.

**8.2.2.5 E1.11 recommended practice**

Steve Terry reported that Peter Willis is heading the group. He had nothing further to report at this time.

**8.2.2.6 BSR E1.30, Application level equipment interoperability for control of commonly encountered entertainment technology devices using E1.17 (new project)**

Steve Terry reported that the ACN task group is working on it.

**8.2.2.7 BSR E1.31, Lightweight streaming protocol for transport of DMX512 using ACN (new project)**

Terry reported that there is some internal tension in the task group, and that working group's leaders will work to defuse the issue. There is a faction that wants to have support for RDM be mandatory in it. He's against that.

**8.2.3 Electrical Power**

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

Ken Vannice reported that a letter ballot will be issued to decide if it shall be offered for public review.

**8.2.3.2 BSR E1.19, Recommended practice for use of Class A GFCIs**

Ken Vannice reported that the working group had accepted the comment resolutions and voted to offer the revised document for a second review.

**8.2.3.3 BSR E1.24, pin connector intermatability standard**

Vannice reported that it had been submitted to ANSI for acceptance.

**8.2.3.4 Luminaire maintenance guidance**

Vannice reported that a refined scope statement had been accepted.

**8.2.3.5 Working Group co-chair**

The working group has approved the nomination of Mitch Hefter as co-chair, reported Ken Vannice.

**8.2.4 Floors**

**8.2.4.1 BSR E1.26 14:50**

Larry Schoeneman moved that BSR E1.26 (Floors/2004-8002r3.2) be accepted as an American National Standard. The motion was seconded. The motion was approved on a roll call ballot, with all present (12 out of a voting body of 15) voting in favor.

Name	Company	Representing	Voting status	Vote
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A	
Larry Schoeneman	Designlab Chicago, Inc.		P	Yes
Steve Terry	Electronic Theatre Controls		P	Yes
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	

Name	Company	Representing	Voting status	Vote
Edwin S. Kramer	I.A.T.S.E. Local 1		P	Yes
Mike Garl	James Thomas Engineering, Inc.		P	Yes
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	Yes
Mike Wood	Mike Wood Consulting LLC		P	Yes
Matthew Griffiths	PLASA	PLASA	P	
Ron Bonner	PLASA	PLASA	A	Yes
Bill Groener	PRG North Bergen		P	Yes
David Johnson	Live Design (Prism Business Media)		P	Yes
Mark Engel	Rosco Laboratories		P	Yes
Bill Sapsis	Sapsis Rigging, Inc.		P	Yes
Colin Waters	TMB		P	
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	Yes
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A	
Florian von Hofen	VPLT	VPLT	P	
Eckart Steffens	SOUNDLIGHT	VPLT	A	
				12 Yes

#### 8.2.4.2 Next project

Tim Hansen said that the working group is considering a project on floor slip resistance.

#### 8.2.5 Fog and Smoke

##### 8.2.5.1 BSR E1.23, General fog standard

Larry Schoeneman moved BSR E1.23 (F&S/2002-3014r10) be accepted as an American National Standard. The motion was seconded. The motion was approved on a roll call ballot, with all present (12 out of a voting body of 15) voting in favor.

Name	Company	Representing	Voting status	Vote
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A	
Larry Schoeneman	Designlab Chicago, Inc.		P	Yes
Steve Terry	Electronic Theatre Controls		P	Yes
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	
Edwin S. Kramer	I.A.T.S.E. Local 1		P	Yes
Mike Garl	James Thomas Engineering, Inc.		P	Yes
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	Yes
Mike Wood	Mike Wood Consulting LLC		P	Yes
Matthew Griffiths	PLASA	PLASA	P	
Ron Bonner	PLASA	PLASA	A	Yes
Bill Groener	PRG North Bergen		P	Yes
David Johnson	Live Design (Prism Business Media)		P	Yes
Mark Engel	Rosco Laboratories		P	Yes
Bill Sapsis	Sapsis Rigging, Inc.		P	Yes
Colin Waters	TMB		P	
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	Yes
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A	
Florian von Hofen	VPLT	VPLT	P	

Name	Company	Representing	Voting status	Vote
Eckart Steffens	SOUNDLIGHT	VPLT	A	
				12 Yes

### 8.2.5.2 ANSI E1.14-2001, Recommendations for Inclusions in Fog Equipment Manuals

Larry Schoeneman reported that the document is in public review for reaffirmation. The review ends April 12.

### 8.2.5.3 BSR E1.29, Fog equipment product safety standard (new project)

Schoeneman reported that there has been no new work done on the draft document, but that we have a good start.

### 8.2.6 Followspot Position 15:20

Ruling reported that the group is slowly working on fleshing out BSR E1.28.

### 8.2.7 Photometrics 15:25

#### 8.2.7.1 BSR E1.25

Ruling reported that there were no comments offered during the last public review. The working group had voted to accept the draft proposed standard as an American National Standard on a letter ballot with the required supermajority. Six out of a possible seven voters voted "Yes." One ballot, the ballot from Altman Stage Lighting, was not returned.

Mike Wood moved that BSR E1.25 (Photo/2003-5001r6) be approved as an American National Standard. The motion was seconded. The motion was approved on a roll call ballot, with all present (12 out of a voting body of 15) voting in favor.

Name	Company	Representing	Voting status	Vote
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A	
Larry Schoeneman	Designlab Chicago, Inc.		P	Yes
Steve Terry	Electronic Theatre Controls		P	Yes
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	
Edwin S. Kramer	I.A.T.S.E. Local 1		P	Yes
Mike Garl	James Thomas Engineering, Inc.		P	Yes
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	Yes
Mike Wood	Mike Wood Consulting LLC		P	Yes
Matthew Griffiths	PLASA	PLASA	P	
Ron Bonner	PLASA	PLASA	A	Yes
Bill Groener	PRG North Bergen		P	Yes
David Johnson	Live Design (Prism Business Media)		P	Yes
Mark Engel	Rosco Laboratories		P	Yes
Bill Sapsis	Sapsis Rigging, Inc.		P	Yes
Colin Waters	TMB		P	
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	Yes
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A	
Florian von Hofen	VPLT	VPLT	P	

Name	Company	Representing	Voting status	Vote
Eckart Steffens	SOUNDLIGHT	VPLT	A	
				12 Yes

#### 8.2.7.2 ANSI E1.9-2001 revision

Karl Ruling reported that the document is in public review for a revision. The public review ends April 11.

### 8.2.8 Rigging

#### 8.2.8.1 BSR E1.1-200X – Wire rope ladders

Bill Sapsis moved that BSR E1.1 (Rig/2004-2029r1), a revision of the existing ANSI E1.1-1999, be accepted as an American National Standard. The motion was seconded. The motion was approved on a roll call ballot, with all present (11 out of a voting body of 15) voting in favor. David Johnson had stepped out of the room to accept a telephone call.

Name	Company	Representing	Voting status	Vote
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A	
Larry Schoeneman	Designlab Chicago, Inc.		P	Yes
Steve Terry	Electronic Theatre Controls		P	Yes
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	
Edwin S. Kramer	I.A.T.S.E. Local 1		P	Yes
Mike Garl	James Thomas Engineering, Inc.		P	Yes
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	Yes
Mike Wood	Mike Wood Consulting LLC		P	Yes
Matthew Griffiths	PLASA	PLASA	P	
Ron Bonner	PLASA	PLASA	A	Yes
Bill Groener	PRG North Bergen		P	Yes
David Johnson	Live Design (Prism Business Media)		P	
Mark Engel	Rosco Laboratories		P	Yes
Bill Sapsis	Sapsis Rigging, Inc.		P	Yes
Colin Waters	TMB		P	
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	Yes
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A	
Florian von Hofen	VPLT	VPLT	P	
Eckart Steffens	SOUNDLIGHT	VPLT	A	
				11 Yes

#### 8.2.8.2 BSR E1.2-200x – Aluminum towers and trusses

Ruling reported that the public review comments were all about formatting and were completely non-substantive.

Bill Sapsis said that the Rigging Working Group will consider accepting a proposed comment resolution document and accepting the document for acceptance as an American National Standard at its meeting. The proposed resolution document and proposed standard are Rig/2006-2014 and Rig/2004-2029r1 respectively.



### **8.2.8.3 E1.4 – Manual Rigging Systems**

Sapsis reported that there was no proposed public review resolution document yet.

### **8.2.8.4 E1.6-1 powered winch hoist systems**

Ruling reported that a draft document had been sent to the working group.

### **8.2.8.5 E1.6-2 powered chain hoist systems**

Ruling reported that the TSC had voted in favor of the public review and that the review materials were now on the ESTA website.

### **8.2.8.6 E1.8 – Speaker Enclosures Rigging Standard**

Ruling said that the layout of ANSI E1.8 is done and it will soon be on our website for sale.

### **8.2.8.7 E1.15 – Boom & Base Assemblies**

Ruling said that it had been submitted to ANSI for acceptance as an ANS.

### **8.2.6.8 E1.21 – Portable roof systems**

Ruling reported that the TSC had voted in favor of accepting E1.21 as an American National Standard. He has sent the document to the ESTA Board for approval of the motion.

### **8.2.6.9 E1.22 – Fire curtain systems**

Ruling reported that the public review had ended last night, March 29. A few people commented.

### **8.2.6.10 Fire modeling project in support of BSR E1.22**

Mike Garl reported that the Board discussed this project for about an hour at the last meeting. The Protocol article giving the state of what was sent to the Board afterward. Discussions have been held with the task group leaders about the protocol for soliciting funds to support this project.

## **8.3 Report on P&P revision acceptance**

Ruling reported that the new P&P had been approved, and our accreditation has been maintained. The new version is posted on the ESTA website. It allows for a 45-day public review of documents available electronically within 24 hours of being requested.

## **8.4 Report on liaisons and news from other industry groups 16:00**

### **8.4.1 PLASA**

Ron Bonner talked about the CEN Workshop Agreement 25, a project to develop a set of pan-Europe theatrical rigging and lifting standards. He reported that there is a fee of more than 1,000 Euros to participate in the workshop, in addition to the costs of attending meetings. Bonner offered to pass on information to those who register their interest with him. There was a long discussion of the TSP's interests in this project.

Future meetings are 27 April in Berlin, 11 to 13 of June in London, 10 to 13 of September London, November in Paris, February 2007 in Brussels, and then 19 to 21 June 2007 at Showtech in Berlin.

The consensus was that we can decide by email to pay the participation fee if it looks like that is necessary.

Bonner said he will attend the April Berlin meeting.

Bonner also talked about the RoHS exemption for control and monitoring equipment. Entertainment control equipment, if it is purely for control, can be considered in one of the WEEE categories exempt from RoHS.

Bonner directed people to check out the RoHS exemption requests on the European website. This has led to a move to organize to stop RoHS. Manufacturers can't get compliant components from suppliers. This affects the California law, too, since the California law references European law. The lack of compliant components is causing a lot of problems in the UK and will create problems in the US. There was a big discussion of the costs of compliance and how the rules will be enforced.

Bonner reported that the rigging qualification program is going forward quickly. Assessors are being trained.

#### **8.4.2 USITT**

Rodney Kaiser reported that he had no report.

#### **8.4.3 ASTC**

No ASTC representatives were present. No report.

#### **8.4.4 VPLT**

No VPLT representatives were present. No report.

#### **8.4.5 UL liaison**

Ken Vannice reported no news.

#### **8.4.6 CANENA liaison**

Ken Vannice summarized for the group the report he had received from Pierre de Saulet. The full report is:

*Ken,*

#### **Working Group Report:**

*We are progressing with the working group. We are having webex meetings on average about every 4-6 weeks and we have held 6 since the fall of 2005; these meetings are in blocks of 1 ½ hours and participation and collaboration of all the working group members can be qualified as excellent. We are basically over the mid-point of our agenda. We are completing the work on Series 16 and 18 simultaneously as we have a consensus on the similar components between the 2 Series. We are about to conclude on the metallic components at our next meeting for these 2 Series, approving the template drawings, and we will be having our 2<sup>nd</sup> session on the rubber components of those.*

*I expect to spend 3 more sessions on the rubber components of Series 16 and 18 to finalize work on those. We will be spending about 3 sessions on Series 15, we already had one. Series 15 is simpler to deal with as there are less manufacturers involved presently with the manufacture of said series and it benefits from the discussion on Series 16 and 18 in topics such as tolerancing, cam design and so on, which are similar in concept.*

*We will be looking finally at Series 17 and 19, which are extra large devices not presently used in stage and studio but very common in heavy industry: I expect also to invest 3 to 4 sessions.*

#### **Harmonization Committee report:**

*As soon as we complete work on Series 16 and 18, and then on Series 15, we will resume meeting on the main Harmonization Committee. We have completed a review of the performance requirements and issued a series of action items: of note, there is a*

limited short circuit and simulation of connection and disconnection under load conditions for safety verification. This is in the name of UL. We should obtain consensus within one meeting for those specific action items. To complete work on the draft of the performance requirements standard, we will have to go through the test section to define pass/fail criteria and number of samples and so on, and then marking requirements. The draft will then be completed.

**Product Standard versus Installation Codes:**

The work ahead will then be to identify the areas where National and Local Codes and Industry practices differ. We have developed a table of all cam type devices and their industry-accepted usage as part of the task of the working group. We have clarified the language by defining the terms by which devices are referred to. We are documenting industry practices. Of course we found different practices depending on the type of industry, for example cinema versus circus: these 2 groups use the same devices in opposite ways. We are documenting as we go along and we are making sure the Product Standard will reflect adequate safety requirements consistent with documented industry practices.

**ESTA Support Required:**

If I may further qualify, Industry participation is critical for the success of this part of the work. Industry in this case is the users of products, basically the ESTA members. Participation in this case has been sporadic and we need help from ESTA to turn this around.

**Immediate Future:**

We are having a webex meeting on April 19<sup>th</sup> to finish work on the Series 16 and 18 metal parts and advance work on series 16 and 18 rubber parts. We should continue work on Series 15 also during this session.

I am planning a meeting of the Harmonization Committee for this summer, maybe in conjunction with the ESTA meeting in Dallas in July: I will bring this as a discussion topic at our next webex meeting.

*Pierre Desilets P. Eng. M.B.A.*

*Product Training and Regulatory Affairs Manager*

*Directeur, Formation du produit et affaires réglementaires*

**LEVITON CANADA**

*tel./tél. 514-954-1840*

Ken Vannice said that ESTA member participation is important and that webex meetings obviate the need to travel for the meetings. He urged those who are interested in participating in the project to contact pdesilets@leviton.com.

**8.4.7 NFPA liaison**

**8.4.7.1 NFPA 70 (NEC)**

Ken Vannice reported that Code Panel 15 had met and voted. The resulting changes are going to Technical Coordinating Committee. The Report On Proposals will be available in June. There are no big changes in entertainment industry chapters, but there are changes in the requirements in the

grounding article that might affect the entertainment chapters. There is a new definition for "neutral."

#### **8.4.7.2 NFPA 80**

Bill Sapsis reported that he received a copy of the part of NFPA 80 dealing with fire safety curtains from Greg Cahanin.

#### **8.4.7.3 NFPA 101 (Life Safety Code) and 5000 (building code)**

Ruling announced that the assembly occupancy committee has a meeting scheduled for 9 January 2007. he read the meeting notice aloud to the assembly.

#### **8.4.7.4 NFPA 1126 (proximate pyro) and 160 (flame effects) [Schoeneman and Ruling]**

Larry Schoeneman had no news about the NFPA standard, but he talked about the new Clark County fire code. Finally it is available for sale. There are no substantive changes for special effects, but it's enough different that anyone doing special effects needs the new code. This edition costs twice as much as the old one.

#### **8.4.8 ICC**

Bill Conner was not present, so no motions were made and no action was taken on agenda items 8.4.8.1 and 8.4.8.2:

##### **"8.4.8.1 IBC proposal 1**

"To support reference to and changes in the International Building Code to correlate with the incorporation of fire safety curtains in NFPA 80.

##### **"8.4.8.2 IBC proposal 2**

"Change the reference in the International Building Code from NFPA 701-1999 to NFPA 701-2004. "

#### **8.4.9 ETCP**

Lori Rubinstein reported that the electrical handbooks are on the racks in the USITT trade show floor. There will be more rigging tests at LDI. The recognized employer program and the recognized labor program are getting going. The former is based on an agreement that the employer will use certified people when possible. There is no charge for participation, and organizations have permission to use a logo identifying them as part of the program.

There is also a program being started to recognize training providers who provide training for renewal. There is a fee for this and a special logo. Double the renew credits are earned on recognized courses as opposed to non-recognized courses.

Ken Vannice reported that the Electrical Subject Matter Experts had met and have now experienced the process that the rigging people experienced. It is very hard to write these questions. It took a whole three-day weekend to do 20 questions. The SMEs will meet again in a couple of weeks.

#### **8.4.10 Other liaisons**

None.

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

##### **8.5.1 Report of the standards subscription task group**

Larry Schoeneman reported. The proposal is as follows. Mark-up shows the changes agreed to by consensus at this meeting.

## Proposal for ESTA Standards Subscription Costs and Benefits

### 1) Costs and Mechanics

- a) Annual subscription handled by ESTA Foundation
- b) Sale/subscriptions sold through ESTA Foundation
- c) Advertised through various magazines touting this as a means for maintaining a safer workplace
- d) Possible additional subscribers include: Performing Arts Centers, Fire Inspectors (AHJs)
- e) Proposed subscriptions \$350/year for non-members
- f) ~~Proposed subscription \$300/year for members of associated organizations (ASTC)~~
- g) Proposed subscription \$250/year for members of ESTA and affiliated organizations (PLASA, VPLT). ~~(Status of USITT members?)~~

### 2) Benefits

- a) One-time receipt of all hard-copy standards (new standards also sent out as hard copy as each one is passed)
- b) Updated electronic standards automatically forwarded as new editions are passed ~~(on approx a quarterly schedule as needed)~~
- c) Standards Watch forwarded electronically as available
- d) All proposed standards in public review sent electronically as available

Schoeneman moved that the proposal as amended be accepted. The motion was seconded. There was discussion. The motion was approved by a unanimous show of hands.

### 8.5.2 Report on FAA meeting

Ruling reported on the SAE G10t meeting he attended in Orlando, at the invitation of the FAA. The committee is trying to draft a standard for dealing with bright lights, such as search lights, that intrude into navigable air space and that might interfere with aircraft. It is not clear whether the group is going to make this a proper consensus standard, developed through public review, or if they are simply going to write something.

Jerry Gorrell, our new Technical Standards Coordinator, is going to take over this project. Another meeting is scheduled for mid-April in San Antonio.

### 9 New Business

Bill Groener asked if the group had any concerns about members who have not attended the last three meetings, including this one. There was discussion. It was decided that Mike Garl will have a word with the member who has missed the last three meetings.

### 10 Other business

None.

### 11 Schedule for future meetings 16:55

Mike Garl announced that the next meeting is scheduled for 13:00 to 17:00 on Friday, 14 July 2006, at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, Texas.

### 12 Adjournment

Larry Schoeneman moved that the meeting adjourn. The motion was seconded. The motion was approved by acclamation. Garl declared the meeting adjourned at 16:23.

### Technical Standards Committee Members and Contact Information

Name	Company	Representing	Voting status
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A
Larry Schoeneman	Designlab Chicago, Inc.		P
Steve Terry	Electronic Theatre Controls, Inc.		P
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P
Edwin S. Kramer	I.A.T.S.E. Local 1		P
Mike Garl	James Thomas Engineering, Inc.		P
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P
Mike Wood	Mike Wood Consulting LLC		P
Matthew Griffiths	PLASA	PLASA	P
Ron Bonner	PLASA	PLASA	A
Bill Groener	PRG North Bergen		P
David Johnson	Live Design (Prism Business Media)		P
Mark Engel	Rosco Laboratories		P
Bill Sapsis	Sapsis Rigging, Inc.		P
Colin Waters	TMB		P
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A
Florian von Hofen	VPLT	VPLT	P
Eckart Steffens	SOUNDLIGHT	VPLT	A