

**Minutes**  
**Technical Standards Council**  
Sunday, 27 January 2019  
Wyndham Garden Anaheim  
Anaheim, CA

**Chairpersons:**

Mike Garl; Mike Garl Consulting, LLC (presiding)

**Recording secretaries:**

Karl Ruling and Richard Nix; ESTA

**Attendees:**

Jerry Gorrell; USITT  
Mitch Hefter; Mitch Hefter  
Fred Kosiewski; Walt Disney Company  
Edwin S. Kramer; I.A.T.S.E. Local 1  
Jules Lauve ; ESTA President  
Michael Lay; Signify  
D. Andrew Gibbs, Ph.D.; Amer. Society of Theatre Consultants  
Alan M. Rowe; IATSE Crafts Advancement Program  
Bill Sapsis; Sapsis Rigging, Inc.  
Larry Schoeneman; DesignLab Chicago, Inc. (online, 7 minutes)  
Keith Sklar; Actors' Equity Association  
Stephen G. Surratt; Texas Scenic Company  
Steve Terry; Electronic Theatre Controls, Inc.  
R. Duane Wilson; Amer. Society of Theatre Consultants

**Visitors:**

Paul Beasley, the Walt Disney Company

**1 Opening Remarks**

Mike Garl called the meeting to order at 9:02 a.m. He thanked people for attending. He noted the exits and designated the strip mall next door as the gathering point if we need to evacuate.

Eddie Kramer asked if non-members of the TSC could log in via WebEx. Karl Ruling explained that they could, our meetings are not secret, but we do not advertise the WebEx details.

**2 Attendance and membership**

**2.1 Taking attendance**

Karl Ruling passed around a "screaming green" attendance sheet for everyone present to sign.

**2.2 Welcome to visitors**

**2.3 Introductions**

**2.4 Call for quorum**

*There are currently 15 votes possible. A quorum is 8.*

**2.5 Consensus body**

The consensus body during this meeting, including people not present, is:

Name	Company or representation	Voting status
Keith Sklar	Actors' Equity	P
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P

Name	Company or representation	Voting status
R. Duane Wilson	Amer. Society of Theatre Consultants	A
Matthew Antonucci	Contract Services Administration Trust Fund	P
Larry Schoeneman	DesignLab Chicago, Inc.	P
Steve Terry	Electronic Theatre Controls, Inc.	P
Jules Lauve	ESTA President	P
Edwin S. Kramer	I.A.T.S.E. Local 1	P
Alan M. Rowe	IATSE Crafts Advancement Program	P
Mike Garl	Mike Garl Consulting LLC	P
Mike Wood	Mike Wood Consulting LLC	P
Mitch Hefter	Mitch Hefter	P
Michael Lay	Michael Lay	P
Bill Sapsis	Sapsis Rigging, Inc.	P
Jerry Gorrell	USITT	P
Louis Bradfield	USITT	A
Fred Kosiewski	Walt Disney Company	P
David E. Miller	Walt Disney Company	A
<b>Total votes possible</b>		<b>15</b>

**Voting status key:** P = Principal voter, A = Alternate voter, I = Individual voter

### 3 Approval of minutes from the previous meeting

See *TSCMinutes10-2018\_DRAFT.pdf*

Steve Terry moved approval of the minutes. It was seconded, and approved with a show of hands.

### 4 Patent and anti-trust statements

#### 4.1 Reading of the anti-trust statement

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

*ESTA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all ESTA events, all discussions will be limited to those subjects that are permitted by the antitrust laws. All members should refrain from any discussion or mention of competitively sensitive subjects such as the current or future prices charged for any member product or services, current or future marketing plans or strategies, and current or future costs, including employee salaries. There also must be no agreement on the suppliers or customers that members will or will not do business with or the markets in which members will conduct business.*

*Violations of the antitrust laws can have serious consequences. If you have any questions or concerns about anything that is discussed at an ESTA meeting, please bring your concern to ESTA management. An easy to read pamphlet describing the antitrust laws is available from the ESTA staff.*

Mike Garl held up a copy. Karl Ruling said he had a PDF version available.

#### 4.2 Reading of the call for patents

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

*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 this working group of the existence of a patent, patent application, copyright, or other protected intellectual property that might protect material in a standard being developed by this working group. You need not be the holder of the patent or copyright to notify this working group of its existence.*

Nothing was revealed.

## **5 Approval of agenda**

*BSR ES1.9 - 201x Crowd Management\_ES2019-2001r0*

*E1-21\_20xx 2018\_Rig2010-2025r8a.pdf*

*BSR\_E1-47\_Rig-2014-2003r5\_11January2019\_clear.pdf*

*E1.59 - Working Document-10\_January\_2019.pdf*

The above documents were added to the agenda for consideration of first public review approval.

Bill Sapsis moved that the modified agenda be accepted. The motion was seconded. The motion was approved unanimously.

## **6 Old Business and standing reports**

### **6.1 Financial reports**

Financial reports had been distributed. There were no questions.

#### **6.1.1 Treasurer's Report and Status of Contributions and Pledges**

#### **6.1.2 TSP Fundraising**

*From the October minutes:*

*Mike Garl urged people to become Investors in Innovation. He noted that the consolidation of the industry has reduced the number of companies. The combined companies do not pay as much in membership dollars and rarely contribute as much to the TSP as the earlier individual companies did. Lori added that there is a high number of mergers and acquisitions in our industry.*

*Bill Sapsis suggested outreach targeted specifically to such companies who have recently undergone restructuring of this type.*

*Michael Lay also suggested that the TSC needs to be diligent about asking for new donations and thanking current donors. He suggested allocating some time at NAMM to discuss a plan to do this, perhaps a roll-out at USITT.*

Michael Garl urged people to continue fund-raising. The mergers in the industry have continued to reduce the number of potential donor companies.

#### **6.1.3 Accounting of TSP documents sold and downloaded**

*[See ANSI\_Q32018.pdf, IHS\_esta\_Q3-18.pdf and SalesReportforTSC\_01-2019.xls]*

## **6.2 Old Business**

### **6.2.1 Technical Standards Program project report**

*See TSPPrjctsSmmry2019-01.pdf.*

No questions.

### **6.2.2 Working group documents for possible action by the TSC**

### 6.2.2.1 Public reviews

[See *Summry\_RWG\_Ltr\_Ballot for BSR\_E1-6-3\_SndToPR.pdf*; *BSR\_E1-6-3\_201x\_2008-2019r6a.pdf*; *BSR\_E1-6-3\_201x\_2008-2019r6a ESTA Format.pdf*]

*RWG motion to initiate First public review of BSR\_E1.6-3 – 201x, Chain hoist selection and use, carried. There was an objection, and two supporting “Yes, with comments” regarding the two-column format not being in conformance with ESTA’s style guide. Two versions – identical except for format-related changes, have been provided. The RWG will discuss which version they prefer, but one version will come to the TSC for a roll-call ballot to initiate first public review.*

Karl Ruling explained the format.

Bill Sapsis moved approval of first public review. The motion was seconded, and a roll-call vote was taken.

Name	Company or representation	Voting status	Vote
Keith Sklar	Actors' Equity	P	Y
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P	Y
R. Duane Wilson	Amer. Society of Theatre Consultants	A	
Matthew Antonucci	Contract Services Administration Trust Fund	P	
Larry Schoeneman	DesignLab Chicago, Inc.	P	
Steve Terry	Electronic Theatre Controls, Inc.	P	Y
Jules Lauve	ESTA President	P	Y
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y
Alan M. Rowe	IATSE Crafts Advancement Program	P	Y
Mike Garl	Mike Garl Consulting LLC	P	Y
Mike Wood	Mike Wood Consulting LLC	P	
Mitch Hefter	Mitch Hefter	P	Y
Michael Lay	Michael Lay	P	Y
Bill Sapsis	Sapsis Rigging, Inc.	P	Y
Jerry Gorrell	USITT	P	Y
Louis Bradfield	USITT	A	
Fred Kosiewski	Walt Disney Company	P	Y
David E. Miller	Walt Disney Company	A	
	<b>Totals</b>	<b>15 possible</b>	<b>12</b>

The motion carried, and a public review has commenced.

[See *E1.59 - Working Document-10\_January\_2019.pdf*].

Michael Lay moved approval of first public review of BSR E1.59 The motion was seconded, and a roll-call vote was taken.

Name	Company or representation	Voting status	Vote
Keith Sklar	Actors' Equity	P	Y
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P	Y
R. Duane Wilson	Amer. Society of Theatre Consultants	A	

Name	Company or representation	Voting status	Vote
Matthew Antonucci	Contract Services Administration Trust Fund	P	
Larry Schoeneman	DesignLab Chicago, Inc.	P	
Steve Terry	Electronic Theatre Controls, Inc.	P	Y
Jules Lauve	ESTA President	P	Y
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y
Alan M. Rowe	IATSE Crafts Advancement Program	P	Y
Mike Garl	Mike Garl Consulting LLC	P	Y
Mike Wood	Mike Wood Consulting LLC	P	
Mitch Hefter	Mitch Hefter	P	Y
Michael Lay	Michael Lay	P	Y
Bill Sapsis	Sapsis Rigging, Inc.	P	Y
Jerry Gorrell	USITT	P	Y
Louis Bradfield	USITT	A	
Fred Kosiewski	Walt Disney Company	P	Y
David E. Miller	Walt Disney Company	A	
<b>Totals</b>		<b>15 possible</b>	<b>12</b>

The motion carried, and a public review has commenced.

[See BSR\_E1-47\_Rig-2014-2003r5\_11January2019\_clear.pdf]

Bill Sapsis moved that BSR E1.47 be offered for public review. The motion was seconded, and a roll-call vote was taken:

Name	Company or representation	Voting status	Vote
Keith Sklar	Actors' Equity	P	Y
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P	Y
R. Duane Wilson	Amer. Society of Theatre Consultants	A	
Matthew Antonucci	Contract Services Administration Trust Fund	P	
Larry Schoeneman	DesignLab Chicago, Inc.	P	
Steve Terry	Electronic Theatre Controls, Inc.	P	Y
Jules Lauve	ESTA President	P	Y
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y
Alan M. Rowe	IATSE Crafts Advancement Program	P	Y
Mike Garl	Mike Garl Consulting LLC	P	Y
Mike Wood	Mike Wood Consulting LLC	P	
Mitch Hefter	Mitch Hefter	P	Y
Michael Lay	Michael Lay	P	Y
Bill Sapsis	Sapsis Rigging, Inc.	P	Y
Jerry Gorrell	USITT	P	Y
Louis Bradfield	USITT	A	

Name	Company or representation	Voting status	Vote
Fred Kosiewski	Walt Disney Company	P	Y
David E. Miller	Walt Disney Company	A	
<b>Totals</b>		<b>15 possible</b>	<b>12</b>

The motion carried, and a public review has commenced.

[E1-21\_20xx 2018\_Rig2010-2025r8a.pdf]

Bill Sapsis moved that BSR E1.21 be offered for public review. The motion was seconded, and a roll-call vote was taken:

Name	Company or representation	Voting status	Vote
Keith Sklar	Actors' Equity	P	Y
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P	Y
R. Duane Wilson	Amer. Society of Theatre Consultants	A	
Matthew Antonucci	Contract Services Administration Trust Fund	P	
Larry Schoeneman	DesignLab Chicago, Inc.	P	
Steve Terry	Electronic Theatre Controls, Inc.	P	Y
Jules Lauve	ESTA President	P	Y
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y
Alan M. Rowe	IATSE Crafts Advancement Program	P	Y
Mike Garl	Mike Garl Consulting LLC	P	Y
Mike Wood	Mike Wood Consulting LLC	P	
Mitch Hefter	Mitch Hefter	P	Y
Michael Lay	Michael Lay	P	Y
Bill Sapsis	Sapsis Rigging, Inc.	P	Y
Jerry Gorrell	USITT	P	Y
Louis Bradfield	USITT	A	
Fred Kosiewski	Walt Disney Company	P	Y
David E. Miller	Walt Disney Company	A	
<b>Totals</b>		<b>15 possible</b>	<b>12</b>

The motion carried, and a public review has commenced.

[See BSR ES1.9 - 201x Crowd Management\_ES2019-2001r0]

Steve Terry said that it seems comprehensive and well organized document. The risk in sending it to public review is low. He recommends it be offered for public, and moved to that effect. The motion was seconded, and a roll-call vote was taken:

Name	Company or representation	Voting status	Vote
Keith Sklar	Actors' Equity	P	Y
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P	Y
R. Duane Wilson	Amer. Society of Theatre Consultants	A	

Name	Company or representation	Voting status	Vote
Matthew Antonucci	Contract Services Administration Trust Fund	P	
Larry Schoeneman	DesignLab Chicago, Inc.	P	
Steve Terry	Electronic Theatre Controls, Inc.	P	Y
Jules Lauve	ESTA President	P	Y
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y
Alan M. Rowe	IATSE Crafts Advancement Program	P	Y
Mike Garl	Mike Garl Consulting LLC	P	Y
Mike Wood	Mike Wood Consulting LLC	P	
Mitch Hefter	Mitch Hefter	P	Y
Michael Lay	Michael Lay	P	Y
Bill Sapsis	Sapsis Rigging, Inc.	P	Y
Jerry Gorrell	USITT	P	Y
Louis Bradfield	USITT	A	
Fred Kosiewski	Walt Disney Company	P	Y
David E. Miller	Walt Disney Company	A	
<b>Totals</b>		<b>15 possible</b>	<b>12</b>

The motion carried, and a public review has commenced.

### 6.2.2.2 Final approvals

#### 6.2.2.2.1 Approval of a revised E1.6-1, powered rigging

See [E1-6-1\\_PR2DraftCommentResols\\_Rig\\_2018-2044.pdf](#); [BSR\\_E1-6-1\\_Rig-2006-2011r7b-\(12.18.2018\).pdf](#)

*There were objections to the letter ballot to accept as ANS, there are draft resolutions, which were also on the RWG agenda for action. As of this writing, the motion has carried, and responses to the objection have been sent to the RWG. The RWG will discuss and report on the resolutions.*

The objections from Robert Dean were reported as having been resolved. Bill Sapsis moved to approve BSR E1.6-1 as an American National Standard. The motion was seconded, and a roll-call vote was taken:

Name	Company or representation	Voting status	Vote
Keith Sklar	Actors' Equity	P	Y
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P	Y
R. Duane Wilson	Amer. Society of Theatre Consultants	A	
Matthew Antonucci	Contract Services Administration Trust Fund	P	
Larry Schoeneman	DesignLab Chicago, Inc.	P	
Steve Terry	Electronic Theatre Controls, Inc.	P	Y
Jules Lauve	ESTA President	P	Y
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y
Alan M. Rowe	IATSE Crafts Advancement Program	P	Y
Mike Garl	Mike Garl Consulting LLC	P	Y

Name	Company or representation	Voting status	Vote
Mike Wood	Mike Wood Consulting LLC	P	
Mitch Hefter	Mitch Hefter	P	Y
Michael Lay	Michael Lay	P	Y
Bill Sapsis	Sapsis Rigging, Inc.	P	Y
Jerry Gorrell	USITT	P	Y
Louis Bradfield	USITT	A	
Fred Kosiewski	Walt Disney Company	P	Y
David E. Miller	Walt Disney Company	A	
<b>Totals</b>		<b>15 possible</b>	<b>12</b>

The motion carried, and an update will be provided at the March meeting.

#### 6.2.2.2.1 Reaffirmation of ANSI E1.34 - 2009, Entertainment Technology -- Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues.

*There were no public review comments. The working group voted to reaffirm it, with all votes cast being "Yes" votes. One ballot was not returned. See E1-34\_WG\_FinalBallotResults\_Ballot-Doc2018-8026.pdf for the vote summary.*

Steve Terry moved that the document be reaffirmed. The motion was seconded and a roll-call vote was taken:

Name	Company or representation	Voting status	Vote
Keith Sklar	Actors' Equity	P	Y
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P	Y
R. Duane Wilson	Amer. Society of Theatre Consultants	A	
Matthew Antonucci	Contract Services Administration Trust Fund	P	
Larry Schoeneman	DesignLab Chicago, Inc.	P	
Steve Terry	Electronic Theatre Controls, Inc.	P	Y
Jules Lauve	ESTA President	P	Y
Edwin S. Kramer	I.A.T.S.E. Local 1	P	Y
Alan M. Rowe	IATSE Crafts Advancement Program	P	Y
Mike Garl	Mike Garl Consulting LLC	P	Y
Mike Wood	Mike Wood Consulting LLC	P	
Mitch Hefter	Mitch Hefter	P	Y
Michael Lay	Michael Lay	P	Y
Bill Sapsis	Sapsis Rigging, Inc.	P	Y
Jerry Gorrell	USITT	P	Y
Louis Bradfield	USITT	A	
Fred Kosiewski	Walt Disney Company	P	Y
David E. Miller	Walt Disney Company	A	
<b>Totals</b>		<b>15 possible</b>	<b>12 Yes</b>

The motion carried, so it will be forwarded to the Executive Committee.

### 6.2.2.3 Withdrawals

None.

### 6.2.2.4 New projects

#### 6.2.2.4.1 Dimming performance

**See TSP\_Dimming\_ProjectRequest.pdf. Would this be a Photometrics Working Group project?**

Eddie Kramer moved that the project be accepted. The motion was seconded. There was brief discussion just before a unanimous vote approval.

It's directed to the Photometrics Working Group. Jerry Gorrell said that the group has a light work load, so this would not be too much work.

#### 6.2.2.4.2 Manual chain hoists

*See TSP\_ProjectRequest - Manual Chain Hoists – Signed.pdf*

Bill Sapsis moved to accept the project. The motion was seconded, and carried unanimously.

#### 6.2.2.4.1 Automated theatrical 'smoke' sensors

*See TSP\_ProjectRequestSmokeSensors101218.pdf.*

Keith Sklar described the problems he has experienced leading up to the initial project request. Performers are complaining that there is a lack of consistency in fog/smoke use or exposure, particularly on tours where regular monitoring is not done consistently, or where daily monitoring is not done at all.

The FSWG did not approve starting a new standard, but the TSC decided to direct the FSWG to consider how to solve the issue

Steve Terry moved that we direct the F&S WG to resolve the issues with this project and to resubmit it. The motion was seconded, and carried unanimously. Karl Ruling was directed to pass this directive to the F&S WG.

### 6.2.3 Other old business

#### 6.2.3.1 E1.19 in Spanish

Richard Nix reported that he had been in communication with Ivan Dorado, who said he would revisit the matter sometime during the first part of this year.

#### 6.2.3.2 E1.20 in Chinese

Richard Nix reported that the Chinese organization making the initial request had agreed to the terms previously described, and – as far as he knew – they were in the process of making the translation.

#### 6.2.3.3 Other translations

*From the October minutes:*

*Erin Grabe talked about Cirque's request to translate the performer flying standard E1.43 into Mandarin.*

*There was discussion of policy going forward with translations. Mike Garl appointed Bill Sapsis, Jules Lauve, and Alan Rowe to a task group to investigate ways that translations can be vetted by us.*

*Erin Grabe will find the boiler-plate language used for the ICOPER document.*

*Any news?*

Bill Sapsis reported that he had sent the ICOPER boilerplate language to the task group (it was also sent to Karl Ruling and Richard Nix during this meeting). More investigation is necessary and a report will be forthcoming at March's meeting.

#### 6.2.3.4 NEC Code Panel 18

*From the October minutes:*

*Mitch Hefter suggested that we appoint an alternate for Jason Potterf on Code Panel 18. This person could*

*be a member of another code panel. No appointment was made at this time. Potterf's acceptance is still pending.*

Any news?

Mitch Hefter reported that Jason Potterf should hear if he has been accepted to the Code Panel in April.

#### **6.2.3.5 Outreach to Electrical Inspectors**

*Any report or action?*

#### **6.2.3.6 Credentialing**

*From the October minutes:*

*Erin Grabe reported that the professional certification coalition has been working to knock down the bills that would restrict professional certification. The most recent battleground is Michigan, but the bill is not considered likely to pass. Grabe noted that there isn't any action for this body to take on this agenda item.*

Any news?

Jules reported that the issue seems to be going away, and described a few areas where the issue has been placed for legislation, but which have been successfully abated.

### **7 New business**

None.

### **8 Optional reports**

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

##### **8.1.1 Control Protocols**

Mike Lay gave a report on the number of meetings, task groups and documents that have made progress during the most recent cycle: The CPWG has added four new members, and three standards have been moved for final acceptance, which will be voted on by letter ballot. Other items of note include:

- Seven task group meetings were held during this cycle.
- The Compliance study group might develop a standard for verifying DMX512 compliance and compatibility.
- There has been discussion of developing an application guide for achieving RDM compliance.
- A NextGen survey will be launched soon.
- The CPWG decided not to meet at USITT, but plans to hold a WebEx in April to move things forward.

##### **8.1.2 Electrical Power**

Mitch Hefter reported that the EPWG did not meet during this cycle, but that the Electrical Inspections task group had met and is making progress. The fixture mounting document might be ready by March.

##### **8.1.3 Floors**

Jerry and Karl reported on the significant working group actions occurring during this meeting cycle.

##### **8.1.4 Fog and Smoke**

Karl suggested that the TSC had already discussed this topic enough already, so no further report is necessary!

##### **8.1.5 Followspot Position**

Jules reported that the working group is making progress on the new standard for temporary followspot positions

##### **8.1.6 Photometrics**

Jerry reported that no meeting occurred during this meeting cycle, but expects to have documents moving forward by March.

##### **8.1.7 Rigging**

*From the October minutes:*

*Among other miscellaneous items, Bill Sapsis reported that E1.2 is languishing. He will press the task group to take action, and to work to reaffirm it, if nothing else.*

Bill reported that the Rigging Working Group meeting was very busy, and they have several documents moving forward, though E1.2 is still stalled. He asked about the procedure for removing a task group chair. Mike replied that the task group chair assignments are made at the discretion of the working group chair(s), and so can also be removed at their discretion.

#### **8.1.8 Stage machinery**

Jerry reported on the USITT effort to develop a guideline document for risk assessment, which is not a formal project within the working group. He also reported on the joint USITT-ESTA educational document.

#### **8.1.9 Event Safety**

Richard Nix reported that two documents had already been approved to move forward. ES1.19 was opened for revision, and ES1.9 was voted into public review at this meeting. He also said that Dr. Cooper has been gently pressing the task groups to make progress.

### **8.2 Reports of affiliated organizations**

#### **8.2.1 ASTC**

Duane asked for TSC's consideration to delay the start of March's meeting by 30 minutes to allow time for a preceding ASTC presentation to complete.

#### **8.2.2 Event Safety Alliance**

*Report already given*

#### **8.2.3 NFPA**

Jerry Gorrell said there was nothing of significance to report.

##### **8.2.3.1 FDW-AAA committee**

Jerry Gorrell reported that next edition of NFPA 80, the 2022 edition, is now open for input. The proposal deadline is June 26, 2019.

##### **8.2.3.2 SPE-AAA**

Karl Ruling reported that the NFPA Technical Committee on Special Effects has a meeting scheduled for February 11, 2019 at the MGM Grand Hotel in Las Vegas, NV. The meeting notices have called it a "Technical Committee" meeting, but the agenda is really for a task group meeting. Work is being done on integrating flame performers (fire eaters, et cetera) into NFPA 160. This probably will not have much impact on the interests of ESTA members.

##### **8.2.3.3 SAF-AXM & BLD**

Jerry Gorrell reported that the NFPA technical committees for assembly occupancies in NFPA 101, Life Safety Code (SAF-AXM) and for the same occupancies in NFPA 5000, Building Construction and Safety Code (SAF\_BLD, the same people as on SAF-AXM) will have a Second Report meeting in the summer. A "hold these dates," notice has been sent out. Gorrell said there were no significant comments affecting our members' interests from the First Report.

##### **8.2.3.4 NEC**

Mitch reported that the 2020 edition should be published in fall of this year. He also said that IATSE will do a presentation at the NFPA convention about standards and safety enforcement in the entertainment.

#### **8.2.4 PLASA**

Jules reported that ESTA and PLASA have finally agreed upon and completed the agreement for terms of separation. The financial issues between the two organizations have been resolved.

### **8.2.5 USITT**

Jerry reported record preregistration numbers for this year's USITT conference in Louisville

### **8.2.6 DTHG**

Karl Ruling said that there was nothing to report that was standards-related, but the DTHG is doing interesting work on virtual reality/augmented reality with theatre spaces. A workshop has been scheduled for March 28 to the April 12 in the "Stage Design-Scene Room" at the Technische Universität Berlin. The workshop will be in English.

### **8.2.7 ICC**

Richard Nix reported on the status of code development cycles for 2021 code and 2024 code, with respects to E1.21 and ES1.19 and Chapter 31.

### **8.2.8 IES**

Mitch Hefter gave an IES Controls update, by way of an email, which Karl Ruling read out loud to the group:

*The IES has proposed merging the Energy Management Sub-Committee on Controls with the Control Protocols Committee into one Controls Committee. This will simplify the development process by removing one layer of approval process in document development and better alignment/less duplication of efforts. I am expected to be named as one of the Co-Vice-Chairs, and of course, will work on any liaison with the CPWG.*

*I also lead the Task Group developing a Recommended Practice for Dimming and Control Method Designations. Committee ballot is expected for first public review is expected in the first quarter of 2019. The draft scope currently reads:*

*'This Recommended Practice provides simple standard designations for open non-proprietary dimming and control methods and protocols. Inclusion of dimming and control method designations in design and construction documents – especially luminaire schedules – provides clarity in selection of compatible dimming and control equipment. Manufacturers of luminaires, drivers, controllers, and lamps are encouraged to use these same designations to clearly identify dimming methods that are compatible with their products in data sheets.'*

## **9 Other business and announcements**

### **9.1 NATEAC 2020**

Bill Sapsis reported. There is a contract with the Roosevelt, the dinner is confirmed at Sardi's, and the boat trip will occur.

### **9.2 Above & Beyond Awards**

Information on the Above & Beyond Awards may be found at [http://tsp.esta.org/tsp/news/award\\_recipients.html](http://tsp.esta.org/tsp/news/award_recipients.html). The nomination site is open year round, and the award is designed for members to highlight the work of their peers.

Michael Lay reported that there had indeed been nominations, which were presented to those recipients present during this meeting cycle.

### **9.4 Lifetime Technical Achievement Award**

Bill Sapsis reported that Rocky Paulsen will be receiving the Lifetime achievement award after the NWRS just before USITT in March.

### **9.5 Volunteer of the Year Award**

No report

### **9.6 Swan Award**

Mike Garl reported that the Swan Award was presented to Scott Hoyt, at the NAMM show, last night after the show closed.

### **9.7 TSP participation fee donor fund**

No report except that there is no change from the last report!

### **9.8 INNOVA**

Mike Garl reported that USITT is still looking for content

### **9.9 NWRS**

Bill reported that there is a schedule for the event, Rocky Paulsen will be the keynote speaker, since Jim Digby has a scheduling conflict. Sponsorship opportunities might still be available.

### **10 Schedule for future meetings**

*The full and current meeting schedule may be found at <http://www.esta.org/ESTA/meetings.php>.*

*The next TSC meeting is scheduled for Friday 22 March 2019, from 15:00 to 18:00 at the Hyatt Regency Louisville.*

The meeting will have a “soft start” so that the ASTC delegates will have an opportunity to finish a prior meeting, and arrive at the TSC meeting before start of business.

### **11 Adjournment**

Bill Sapsis moved to adjourn. The agenda being complete and there being no further business brought forth, Mike Garl declared the meeting adjourned at 10:51

Technical Standards Council members as of 28 January 2019

<b>Name</b>	<b>Representing</b>	<b>Status</b>
Matthew Antonucci	Contract Services Administration Trust Fund	P
Harry Box	PERG	O
Louis Bradfield	USITT	A
Mike Garl	Mike Garl Consulting LLC	P
Jerry Gorrell	USITT	P
Erin Grabe	ESTA	exf
Mitch Hefter	Mitch Hefter	P
A. Scott Hoyt	Heartland Scenic Studio	exf
Fred Kosiewski	Walt Disney Company	P
Edwin S. Kramer	I.A.T.S.E. Local 1	P
Jules Lauve	ESTA President	P
Michael Lay	Signify	P
David E. Miller	Walt Disney Company	A
Richard J. Nix	ESTA	exf
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P
Eddie Raymond	IATSE Local 16	O
Alan M. Rowe	IATSE Crafts Advancement Program	P
Karl G. Ruling	ESTA	exf
Bill Sapsis	Sapsis Rigging, Inc.	P
Larry Schoeneman	DesignLab Chicago, Inc.	P
Keith Sklar	Actors' Equity Association	P
Stephen G. Surratt	Texas Scenic Company	exf
Steve Terry	Electronic Theatre Controls, Inc.	P
R. Duane Wilson	Amer. Society of Theatre Consultants	A
Mike Wood	Mike Wood Consulting LLC	P