

**Minutes**  
**Technical Standards Council**  
Sunday, 27 October 2019  
D/FW Marriott Solana  
Westlake, TX

**Chairpersons:**

Mike Wood; Mike Wood Consulting LLC; P (presiding)  
Mike Garl; Mike Garl Consulting LLC; P

**Recording secretaries:**

Richard Nix and Karl Ruling (ESTA)

**Attendees:**

Jerry Gorrell; USITT; P  
Erin Grabe; ESTA; exf  
Mitch Hefter; Mitch Hefter; P  
Edwin S. Kramer; I.A.T.S.E. Local 1; P  
Jules Lauve ; ESTA President; P  
Michael Lay; Michael Lay; P  
D. Andrew Gibbs, Ph.D.; Amer. Society of Theatre Consultants; P  
Alan M. Rowe; IATSE Crafts Advancement Program; P  
Bill Sapsis; Sapsis Rigging, Inc.; P  
Keith Sklar; Actors' Equity Association; P  
Steve Terry; Electronic Theatre Controls, Inc.; P  
R. Duane Wilson; Amer. Society of Theatre Consultants; A

**Visitors:**

Michael Skinner; CSATF  
Justin Bennett: University of the Incarnate Word

**1 Opening Remarks**

Mike Garl called the meeting to order at 9:04. He thanked everyone for coming here. He asked people to turn off mobile phones. He pointed out the exit doors and designated Hollywood Burger as the assembly point. He reminded us of run, hide, fight in case of an active shooter incident, and noted that there had been one in Greenville, Texas last night.

**2 Attendance and membership**

**2.1 Taking attendance**

Karl Ruling noted the green sign-in sheet before passing it around the room for people to mark, indicating their presence in the room.

**2.2 Welcome to visitors**

**2.3 Introductions**

**2.4 Call for quorum**

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

Mike Garl counted 12 voting members in the room, and declared a supermajority present.

**2.5 Consensus body, including those not present**

Name	Company or representation	Voting status
Keith Sklar	Actors' Equity	P

Name	Company or representation	Voting status
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P
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>

### 3 Approval of minutes from the previous meeting

See *TSC\_min\_07-2019\_DRAFT.pdf*

Steve Terry moved to accept the minutes, the motion was seconded and carried with no objection.

### 4 Patent and anti-trust statements

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

The following statement was 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.*

Karl Ruling held up one of the easy-to-read pamphlets.

No anti-trust concerns were raised.

#### 4.2 Reading of the call for patents

The following statement was 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.*

No protected intellectual property was revealed.

## **5 Approval of agenda**

Bill Sapsis moved to approve the agenda, the motion was seconded. Mike Garl noted that some additional documents might be added for action, which will be considered as they come up. The motion was then carried with no objection.

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

### **6.1 Financial reports**

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

#### **6.1.2 TSP Fundraising**

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

*[See SalesReportforTSC\_10-2019.xls]*

#### **6.1.4 ANSI dues**

*Last year our ANSI bill was*

*ANSI Organization Membership: \$5,095.00*

*National Activity Assessment - Number of ANS Sponsored 54: \$5,935.00*

*GRAND TOTAL \$11,030.00*

*Next year*

*ANSI Organization Membership: \$5,300.00*

*We will have more standards.*

*National Activity Assessment - Number of ANS Sponsored 55 to 164: \$9,360.00.*

*GRAND Total \$14,660.00*

Michael Lay suggested that Karl write a press release or Protocol article about how large the program has become.

### **6.2 Old Business**

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

*See TSPPrjctsSmmry2019-10.pdf.*

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

##### **6.2.2.1 The Introduction to Atmospheric Effects**

*Okay to move forward, or is another public review needed?*

Karl Ruling gave a report, saying that Keith Sklar had asked for more information in the document about testing, so the document had been updated accordingly, after a few rounds of review and comment, which also included addition of industry-specific information.

Mike Wood moved to release the draft for publication. The motion was seconded and carried with one opposing

vote from Jules Lauve, and no abstentions.

**6.2.2.2 BSR E1.2 – 201x, Design, Manufacture, and Use of Aluminum Trusses and Towers**

Possible first public review

Bill Sapsis moved to send out to first public review, and the motion was seconded. The roll-call vote summary is shown here:

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	Y
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	
David E. Miller	Walt Disney Company	A	
<b>Total votes possible 15</b>			<b>12</b>

With twelve affirmations, no objections or abstentions, the motion carries.

**6.2.2.3 BSR E1.23, Design and Execution of Theatrical Fog Effects**

Possible first public review.

Mike Wood moved to send out to first public review, and the motion was seconded. The roll-call vote summary is shown here:

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

Name	Company or representation	Voting status	Vote
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	Y
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	
David E. Miller	Walt Disney Company	A	
<b>Total votes possible 15</b>			<b>12 yes</b>

With twelve affirmations, no objections or abstentions, the motion carries

**6.2.2.4 BSR E1.66, Safety Standard for Followspot Positions In Temporary Entertainment Applications**  
Possible first public review.

Richard Nix reported. No revisions to the draft. Jerry Gorrell moved to send out to first public review. The motion was seconded, and the roll-call vote summary is shown below:

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	Y
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	
David E. Miller	Walt Disney Company	A	
<b>Total votes possible 15</b>			<b>12 yes</b>

With twelve affirmations, no objections or abstentions, the motion carries.

**6.2.2.5 BSR ES1.7 – 20xx, Event Safety, Weather Preparedness**

Possible first public review.

Richard Nix reported that this took longer than expected, but the working group voted to accept it to public review. One minor change was made to the document.

Jules Lauve moved to approve first public review. The motion was seconded, and the roll-call vote summary is shown below:

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	Y
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	
David E. Miller	Walt Disney Company	A	
<b>Total votes possible 15</b>			<b>12 yes</b>

With twelve affirmations, no objections or abstentions, the motion carries.

**6.2.2.6 BSR ES1.19 – 20xx, Event Safety, Safety Requirements for Temporary Special Event Structures.**

Possible first public review.

Richard Nix reported. There are minor revision to correct and error and some minor word tweaks.

Bill Sapsis moved to approve first public review. The motion was seconded, and the roll-call vote summary is shown below:

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

Name	Company or representation	Voting status	Vote
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	Y
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	
David E. Miller	Walt Disney Company	A	
<b>Total votes possible 15</b>			<b>12 yes</b>

With twelve affirmations, no objections or abstentions, the motion carries.

#### 6.2.2.7 Withdrawals

None.

#### 6.2.2.8 New projects

None.

#### 6.2.3 Other old business

##### 6.2.3.1 E1.19 in Spanish

*Richard Nix reports. See TSPPrjctsSmmry2019-10.pdf.*

No news, reported Richard.

##### 6.2.3.2 E1.20 in Chinese

*Richard Nix reports. See TSPPrjctsSmmry2019-10.pdf. There had been a second request from China. At the last meeting, the TSC directed Richard to ask CALI if there was a better equivalent word or phrase that could be used, to indicate clear intent where a mandatory requirement is necessary.*

Richard Nix reported that the second group has abandoned their translation project. One Chinese translation is enough.

There was discussion of the accuracy of the translation. Richard Nix will ask his friend, who does technical translations professionally, for an estimate of what a formal vetting of the translation would cost.

#### 7 New business

## **8 Optional reports**

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

#### **8.1.1 Control Protocols**

Michael Lay gave a precis of the meeting's actions. Twelve new members have been accepted, and there is interest in the Next Gen projects.

#### **8.1.2 Electrical Power**

Mitch Hefter gave a brief report.

#### **8.1.3 Floors**

Jerry Gorrell said there is only one active project, then deferred to Karl Ruling, who gave some additional anecdotal information.

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

#### **8.1.5 Followspot Position**

#### **8.1.6 Photometrics**

Jerry Gorrell reported that they will meet after this meeting.

#### **8.1.7 Rigging**

Bill Sapsis reported on the meeting, saying that the RWG had also approved about a dozen new members. There was discussion of the inspection frequency on static rigging systems, which had caused a small discrepancy between the requirements in two draft standards.

#### **8.1.8 Stage machinery**

No report.

#### **8.1.9 Event Safety**

Three docs in public review, reported Richard Nix. We can anticipate a couple more to be moved to public review soon.

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

#### **8.2.1 ASTC**

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

#### **8.2.3 NFPA**

##### **8.2.3.1 FDW-AAA committee (NFPA 80 fire doors & fire safety curtains)**

Jerry Gorrell reported on the revision of the testing of fire curtain fabric. There seems to be no problem for fire curtain material manufacturers.

##### **8.2.3.2 SPE-AAA (NFPA 160 & 1126, flame and pyrotechnics)**

Karl Ruling reported, the main changes address flame performers.



### **8.2.3.3 SAF-AXM & BLD (assembly occupancies. NFPA 101, 102, & 5000)**

Jerry Gorrell reported that they are trying to address people falling from stadium balconies. There is no problem with people falling from theatre balconies.

### **8.2.3.4 NEC (NFPA 70)**

2020 code is published in September, reported Mitch Hefter. The electronic version is only available as an on-line subscription. This has made many people unhappy.

### **8.2.3.5 NEC (Panel 18 representation)**

*Any news or update about Jason Potter's application?*

### **8.2.3.6 NFPA 70E**

Jerry Gorrell reported on the objections from ASSP members to inclusion of risk assessment in 70E. They are not a group formally representing ASSP; they are simply a group of ASSP members.

### **8.2.4 PLASA**

No report.

### **8.2.5 USITT**

Jerry Gorrell reported on the weekend's fundraising. Mitch reported that conference registration is now open.

### **8.2.6 DTHG**

### **8.2.7 ICC**

*Richard Nix reports on public comment final hearings, occurring in Las Vegas at the same time as our meetings.*

Code Change Proposal CCP S-200 proposed making a change in IBC Chapter 16 by adding an exception in the building code to defer loading criteria for temporary structures to E1.21. The proposal was not successful. Main opposition is coming from ASCE, who authors ASCE 7 and ASCE 37, which is the basis for the load reductions used in E1.21. ASCE 37 is for loads on temporary structures and for buildings under construction.

Bill Gorlin's office has an employee that works with the ASCE 37 committee. He will reach out to them.

### **8.2.8 IES**

Mitch Hefter gave a report on recent IES activity. He is co-vice-chair of the Lighting Control Systems Committee. Bill Ellis is a member. Hefter is also a member of the Lighting Commissioning Committee.

In the following list of IES projects, LP means "Lighting Practice" and RP means "Recommended Practice."

#### **IES – Lighting Control Systems Committee:**

RP-42: Dimming & Control Method Designations

Document has completed the committee re-circulation ballot (IES committee is equivalent to an ESTA Working Group). It's in process to go out for public review.

LP-6 (a meld of TM-23 & LEM-7): Lighting Control Systems – Properties, Selection and Specification  
It failed the first committee ballot and is being revised

RP-xx: Controls Narrative

Task Group still working on final draft for first committee ballot. Since this is a new document, it may be delayed in order to get existing documents reaffirmed/updated of the launch of IES's On-Line Lighting Library,

scheduled for August 2020.

### **IES Lighting Commissioning Committee:**

LP-8 (formerly DG-29): Commissioning

The document passed the committee circulation ballot; it's in process to go to out for public review.

IES Assembly and Performance Lighting Committee (formerly Theater, Television, and Film Lighting Committee (TTFL) has Bill Ellis as a member.

Mike Wood said that the IES is working on a standard about perceived brightness of saturated colors.

## **9 Other business and announcements**

### **9.1 ESTA document link policy**

The following reminder was included on all working group agendas for this meeting cycle.

*Please ensure that web references to ESTA, including links to ESTA's web pages, are current, and use the correct text reference. TSP staff also reminds everyone that they must not direct-link to any ESTA standards document, nor post ESTA standards documents for download, from your website(s). Please link to ESTA's TSP downloads page, found at [https://tsp.esta.org/tsp/documents/published\\_docs.php](https://tsp.esta.org/tsp/documents/published_docs.php).*

### **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.*

### **9.3 Lifetime Technical Achievement Award**

Bill Sapsis noted that the last two winners were keynote speakers at the NWRS. This year the keynote speaker is Jeanette Farmer.

### **9.4 Volunteer of the Year Award**

### **9.5 Swan Award**

### **9.6 TSP participation fee donor fund**

### **9.7 INNOVA**

Steve Terry reported that the ESTA Board yesterday approved a new strategic plan. The sense was that INNOVA is not working well. A group was appointed to look into look into continued feasibility.

Apparently the entire INNOVA catalog is off-line while they move servers. Mitch Hefter reported the new server has not been on-line for several weeks—it went on-line before the Conference registration—but INNOVA isn't there.

Multiple videos have been produced by people for INNOVA, and they have been vetted, reported Steve Terry, but they have then not gone anywhere, not been posted for months, perhaps well over a year.

### **9.8 Strategic Plan**

Erin Grabe reported that the survey was completed, there was follow-up, with a few rounds of development meetings. The two-page plan was approved yesterday, and copies will be distributed.

### **9.9 Roger Lattin**

Mike Garl reported that he passed away. We thank him for his support.

### **9.10 Jules Lauve thanks and goodbye**

Jules Lauve noted that his position on the TSC is as the ESTA President. He is leaving that office and won't attending in the future. He said that he always emerged from a meeting knowing a bit more than he did when he walked in.

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

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

#### **10.1 Winter 2020 meetings (NAMM, Anaheim, CA)**

The Winter 2020 meetings will again be held in conjunction with the Winter NAMM 2020 show, 15-19 January 2020. The TSC meeting is scheduled for 09:00 PST, Sunday 19 January 2020, at the Wyndham Garden Anaheim.

#### **10.2 Spring 2020 meetings (USITT, Houston, TX)**

The Spring 2020 meetings will be held in conjunction with the USITT conference in Houston, TX, from 01-04 April 2020. The complete schedule has not yet been confirmed.

#### **10.3 Summer 2020 meetings (NATEAC, NYC)**

The Summer 2020 meetings will be held in conjunction with the NATEAC event in New York City, 19-20 July 2020. The complete schedule has not yet been confirmed.

Bill Sapsis said that the meetings would probably be the days before the NATEAC conference.

#### **10.4 Board changes.**

Jules Lauve will step down as Board President on 31 December 2019.

### **11 Adjournment**

Mike Wood moved to adjourn. The agenda being completed and there being no further business, Mike Garl declared the meeting adjourned at 10:16.

Technical Standards Council members

<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	R
Fred Kosiewski	Walt Disney Company	P
Edwin S. Kramer	I.A.T.S.E. Local 1	P
Jules Lauve	ESTA President	P
Michael Lay	Michael Lay	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	Larry Schoeneman	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