

Minutes
Technical Standards Council
19 October 2020
via WebEx

Presiding chairperson: Mike Garl

Recording secretaries: Richard Nix & Karl Ruling; ESTA

Members attending:

Alan M. Rowe; IATSE Local 728 (IATSE Crafts Advancement Program); P
David E. Miller; Walt Disney Parks & Live Entertainment (Walt Disney Company); P
Edwin S. Kramer; I.A.T.S.E. Local 1; P
Erin Grabe; ESTA; exf
Jerry Gorrell; Theatre Safety Programs (USITT); P
Karl G. Ruling; ESTA; exf
Keith Sklar; Actors' Equity Association; P
Larry Schoeneman; I
Michael Lay; Candela Controls, Inc; P
Mike Wood; Mike Wood Consulting LLC; P
Mike Garl; Mike Garl Consulting LLC; P
Mitch Heffer; P
R. Duane Wilson; George C. Izenour Associates (Amer. Society of Theatre Consultants); A
Richard J. Nix; ESTA; exf
Steve Terry; Electronic Theatre Controls; P

Visitor: Jason Potterf; Cisco

1 Opening Remarks

Mike Garl called the meeting to order at 10:03. He thanked everyone for taking time out of the morning—in whatever time zone they are in—to attend. He said that he hoped everyone was staying safe and healthy. He asked people to mute their microphones when not speaking

2 Attendance and membership

2.1 Taking attendance and introductions

2.2 Welcome to visitors

Jason Potterf was welcomed by Mike Garl. Garl told Potterf that his GitHub presentation will be later in the meeting.

2.3 Call for quorum

Karl Ruling announced that a quorum was present.

2.4 Consensus body changes

None.

2.5 Consensus body during this meeting

Name	Company or representation	Voting status
Keith Sklar	Actors' Equity	P
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P
R. Duane Wilson	Amer. Society of Theatre Consultants	A
Michael Lay	Candela Controls, Inc.	P
Matthew Antonucci	Contract Services Administration Trust Fund	P
Steve Terry	Electronic Theatre Controls, Inc.	P

Name	Company or representation	Voting status
Todd Spencer	ESTA President	P
Edwin S. Kramer	I.A.T.S.E. Local 1	P
Alan M. Rowe	IATSE Crafts Advancement Program	P
Larry Schoeneman	Larry Schoeneman	P
Mike Garl	Mike Garl Consulting LLC	P
Mike Wood	Mike Wood Consulting LLC	P
Mitch Hefter	Mitch Hefter	P
Bill Sapsis	Sapsis Rigging, Inc.	P
Jerry Gorrell	USITT	P
Louis Bradfield	USITT	A
David E. Miller	Walt Disney Company	P
William Gillett	Walt Disney Company	A
	Total votes possible	15

3 Approval of minutes from the previous meeting

See *TSCmin07-2020_DRAFT.pdf*.

Larry Schoeneman moved that the draft minutes be approved. The motion was seconded. The motion was accepted.

4 Patent and anti-trust statements

4.1 Reading of the anti-trust statement

The following statement was read 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 a copy of the easy-to-read pamphlet in front of his webcam. No restraint of trade problems were reported.

4.2 Reading of the call for patents

The following statement was read 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

Mike Garl added an item at 7.1 to the agenda for a GitHub presentation by Jason Potterf.

William Gillett moved to approve the revised agenda. The motion was seconded and carried.

6 Old Business and standing reports

6.1 Financial reports

See ESTA TSP 2020-09-30_financials.pdf

Erin Grabe reported that our income is down considerably, and next year's budget has been adjusted accordingly. She said that there had been recent discussions about restructuring the TSP donations, and Investors in Innovation. ProSight's contribution has dropped from \$80k to about \$15k and the Board is looking at ways to offset this. She noted that the five-year pledges for funding the TSP were made about five years ago. They are timing out.

Mike Wood asked how ESTA as a whole was doing, since the TSP cannot operate at a deficit on its own. Erin Grabe said that ESTA has some reserves. There was further discussion of how ESTA has restructured its investments to maximize cash.

There was a discussion of the NAMM sponsorship. The initial three-year contract is over, and we are in a new contract, explained Erin Grabe. However, with each one of these contracts, the financials were to be discussed on a year-to-year basis. That is, the dollar amounts are not locked in.

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_10-2020.pdf

There were no questions.

6.2 Old Business

6.2.1 Technical Standards Program project report

TSPPrjctsSmmry2020-10.pdf

There were no questions.

6.2.2 Working group documents for possible action by the TSC

6.2.2.1 Public reviews

Possible first public review of BSR ES1.4, Event Fire Safety Requirements. A public review motion was made and accepted at the Event Safety Working Group meeting on October 16. See BSR_ES1-4_ES2020-200019r0.pdf.

Mike Wood moved to approve the first public review. The motion was seconded. The motion was approved with no opposition and no abstentions.

6.2.2.2 Withdrawals

None.

6.2.2.3 Accept as ANS

Motions to approve and publish BSR E1.54, the ESTA color communication standard and the explanatory supporting document. The working group approved both motions. There is one unsatisfied public review

commenter. His objections have been considered and rejected. See *BSR_E1-54-201x_29July2020.pdf*, *E1-54_FrstRevwComments_ApprovedResponses.pdf*, *Notes to BSR_E1-54-201x30July2020.pdf*, *TimmermanObjects_Fastmail.pdf*, *WG_E1-54_final_BallotResults_Photo_2020-5016r2.pdf*, and *WG_Explanatory_BallotResults_Photo_2020-5015r2.pdf*.

Karl Ruling reported that there was discussion in the working group about Robert Timmerman’s objections, which were directed at the explanatory document. They agreed to reject his comments, but to also invite him to attend and participate in task group meetings. Mike Wood added that E1.54 is an attempt to approve a standard that was requested by the CPWG. Accepting it and publishing it would fulfill that request.

Mike Wood moved that BSR E1.54 be accepted as an American National Standard and that both it and the explanatory notes document be published. The motion was seconded. The motion was approved on a roll call vote.

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

The motion carried with 12 Yes votes out of a possible 15, with no opposition and no abstentions. Three voters were not present.

6.2.2.4 New projects

“Guidelines for the Measurement and Reporting of Luminaire Spectral Power /Absorbance” project in Photometrics Working Group. See SPD_project_Request.pdf.

Mike Wood reported on the project request received from Tucker Downs, explaining its intent, which is to provide a standardized a way to communicate luminaire color spectrum information. He said he thought it was a good project, and expected the CPWG to participate. He moved to approve the project and to assign it to the Photometrics Working Group. The motion was seconded and carried without objection or abstention.

Mike Wood reported that there is an IES standard that does part of what we need. It's a standard for reporting

spectral power distribution information as an XML file, but it does not have the level of detail we need. He suspects we will be referring to that IES standard.

6.2.3 Translations

6.2.3.1 Spanish

We had asked for a \$100 copyright fee from the translator.

Richard Nix said he'd received \$100 cash from Rick Boychuk to cover the fee. Nix said he wrote a check for that amount to ESTA and the check is in the mail. Thus, the fee has been paid.

6.2.3.2 Chinese

See Re__Possible_translation_verification_Chinese.pdf

Mike Wood said it is very low cost per page, but we don't have \$2,000 for this. The consensus was that if someone wants it to be verified, they can pay for it.

There was discussion of what responsibility, if any, we have to verify the translation.

Richard Nix was directed to tell the Chinese organization that did the translation that we will not be taking on the responsibility of verifying it for accuracy.

7 New business

7.1 GitHub presentation

Jason Potterf gave a pGitHub presentation, arguing we should use this platform for sharing code, using the PPTX stack that he used for the CPWG meeting. He said he didn't expect the TSC to vote on this today. He is looking for feedback.

Mike Wood spoke, said that he'd discussed it with Steve Terry and Karl Ruling. regarding the potential impact to our ANSI process. In principle, he thinks it has merit, but he is not sure the merits outweigh the concerns yet. He said he is willing to participate in a Task Group to investigate further.

Mike Wood asked Michael Lay for his thoughts. Michael Lay said he had similar concerns about using it at the association level, but thought it was very useful otherwise.

Mike Garl appointed a task group of Mike Wood, Michael Lay, and Steve Terry, and Karl Ruling to investigate further.

7.2 Other new business.

None.

8 Optional reports

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

8.1.1 Control Protocols

Michael Lay reported that there are eight active tasks groups. BSR E1.59 will soon to be approved, he hopes. The NextGen task groups are moving forward. The security task group also has had its first organizational meeting.

Mike Wood asked for clarification on the security problem being addressed. Michael Lay said it was a response to legislation on IoT security, primarily enacted in California, that requires reasonable security on all connected devices. "Connected devices" would be anything that might be connected to the Internet. Reasonable security is not defined, but having no security would not be reasonable.

8.1.2 Electrical Power

Mitch Hefter reported that the WG met this past week, and that the main subject of discussion was the use of GFCI, BSR E1.19. He said they had received new information that has caused an update to the draft, which he expects to be ready by the next meeting.

8.1.3 Floors

Jerry Gorrell deferred to Karl Ruling to report on BSR E1.62, the draft standard for portable platforms and choral risers. Ruling reported that few comments had been received in the last public review, and the working group would be voting to accept E1.62 as an American National Standard.

8.1.4 Fog and Smoke

Larry Schoeneman reported there had been a request to have a fog exposure standard for children, but we have very little data about theatrical fog and children. There are workplace regulations in Georgia for fog and children, but we don't know what they are based on.

There was a discussion of Monona Rossol's presentation to the Westchester Chemical Society. A Zoom invitation had been sent to F&S Working Group members because the presentation was thought to be about fog and haze, but it wasn't. It focused on pyrotechnic effects for simulating bullet hits but also dealt with performer exposure to pollution in the Gowanus Canal. Keith Sklar reported that SAG-AFTRA has Rossol for health advice on fog and haze effects.

8.1.5 Followspot Position

No report

8.1.6 Photometrics

Jerry Gorrell reported that most of the topics had been covered by prior reports, but also mentioned the discussions about LED dimming (relevant to draft standard BSR E1.69). Karl Ruling added that there were a lot of comments in the recent public review of BSR E1.69.

8.1.7 Rigging

No report.

8.1.8 Stage machinery

No report.

8.1.9 Event Safety

Richard Nix gave a brief report and said progress is being made.

8.2 Reports of affiliated organizations

8.2.1 ASTC

Duane Wilson reported that the ASTC has decided to hold regular meetings of its codes and standards committee to discuss the current NFPA aisle width requirements and the 50-ft threshold for mandating a fire safety curtains.

8.2.2 Event Safety Alliance

No report.

8.2.3 NFPA

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

Jerry Gorrell reported that the last set of meetings was chaotic. The usual chairperson was out on maternity leave, and the interim moderator had no experience, so the meetings did not run very well, but the work is unlikely to have direct impact on our industry. They are finding problems testing the functioning of smoke dampers, and did not address these problems in the meeting, so he expects a series of Tentative Interim Amendments to come out to address them. There were five staff reports on the agenda, but none of them were acted on.

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

Larry Schoeneman said he is not too involved now. Karl Ruling said he attends the meetings remotely, and mainly listens to make sure there is nothing being proposed that will bite us. He has not found anything that might affect ESTA members' work.

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

No news, said Jerry Gorrell.

8.2.3.4 NEC (NFPA 70)

Mitch Hefter reported that the public input period closed on 10 September, and that some of the task groups are already preparing regular meeting schedules. Of the various proposals, he noted that one proposal wants to move all definitions into the front of the NEC, but current discussions indicate this will be a contentious discussion. He mentioned the proposed rewrite of Article 530 made by Alan Rowe et alia from the Hollywood contingency.

8.2.3.5 NFPA 70E

Jerry Gorrell reported that NFPA 70E is open for public input until 1 June 2021.

8.2.4 USITT

Mitch Hefter reported that the 2021 Conference will be virtual.

8.2.5 DTHG

Karl Ruling reported that the BTT conference in Ulm is still on schedule and is planned to be face-to-face with symposia, talks, and a trade show. He is amazed. The COVID-19 situation in Germany is better than in the USA, but still bad.

8.2.6 ICC

Richard Nix reported that the IFC code change proposal process has started, and there are two potential changes that will have an impact on us. The first involves minor revisions to IFC Chapter 31 regarding special event structures. The second will specifically address anchorage, and may be an opportunity to introduce ES1.19 into the code language. Richard said he anticipated a meeting within two weeks, but it has not yet been confirmed.

8.2.7 IES

Mitch Hefter reported that the on-line library should be open soon. The ASTM Compass platform is being used.

8.2.8 UL

Mitch Hefter reported on some work being done with germicidal control systems.

9 Other business and announcements

9.1 Above & Beyond Awards

Information on the Above & Beyond Awards may be found at http://tsp.esta.org/tsp/news/award_recipients.html. Mike Garl encouraged people to consider nominations.

9.2 Lifetime Technical Achievement Award

No news.

9.3 Volunteer of the Year Award

Ried Neslage has been nominated, Erin Grabe said, but she is not sure if this is for the Volunteer of the Year Award or Above and Beyond.

9.4 Swan Award

No news.

9.5 TSP participation fee donor fund

No news.

9.6 NAMM

Erin Grabe reported that we are to supply only about 7 to 10 hours of educational material. These are few enough hours that we can fill them easily without putting out a general call for content. A preliminary list of sessions has been developed and should be finalized soon.

9.7 INNOVA

No news.

9.8 NATEAC

Erin Grabe noted that it had been postponed to July 2021. Karl Ruling noted that it was scheduled for the same hotel, the Roosevelt Hotel, but the Roosevelt Hotel is closing at the end of this month, October.

10 Schedule for future meetings

The meeting schedule will be posted at <http://www.esta.org/ESTA/meetings.php>, said Mike Garl.

11 Adjournment

As the end of the agenda was reached, Larry Schoeneman moved we adjourn. Hearing no objections and the agenda being completed, Mike Garl declared the meeting adjourned at 11:36.

Technical Standards Council members

Delegate	Company	Representation	Voting status
Matthew Antonucci	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	P
Harry Box	Production Equipment Rental Group	PERG	O
Louis Bradfield	Louis Bradfield	USITT	A
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	P
William Gillett	Disney Parks Live Entertainment	Walt Disney Company	A
Jerry Gorrell	Theatre Safety Programs	USITT	P
Erin Grabe	ESTA	ESTA	exf
Mitch Hefter	Mitch Hefter	Mitch Hefter	P
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P
Michael Lay	Candela Controls, Inc	Candela Controls, Inc	P
David E. Miller	Walt Disney Parks & Live Entertainment	Walt Disney Company	P
Richard J. Nix	ESTA	ESTA	exf
D. Andrew Gibbs, Ph.D.	D. A. Gibbs and Associates	Amer. Society of Theatre Consultants	P
Eddie Raymond	IATSE Local 16	IATSE Local 16	O
Alan M. Rowe	IATSE Local 728	IATSE Crafts Advancement Program	P
Karl G. Ruling	ESTA	ESTA	exf
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P
Larry Schoeneman	Larry Schoeneman	Larry Schoeneman	I
Keith Sklar	Actors' Equity Association	Actors' Equity Association	P
Todd Spencer	PSAV Presentation Services	ESTA President	P
Stephen G. Surratt	Texas Scenic Company	Texas Scenic Company	exf
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	A

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Delegate	Company	Representation	Voting status
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P

Voting status codes:

- P Principal voter
- A Alternate voter
- O Observer, non-voter
- exf Ex Officio