

Minutes
Technical Standards Council
Friday 04 March 2022
Hyatt Regency Baltimore Inner Harbor

Chairperson:

Mike Wood; Mike Wood Consulting LLC; P

Recording secretaries:

Karl Ruling and Richard Nix (ESTA)

Attendees:

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
Mike Skinner; Contract Services Administration Trust Fund; A
Steve Terry; Electronic Theatre Controls, Inc.; P
Edwin S. Kramer; I.A.T.S.E. Local 1; P
Alan M. Rowe; IATSE Crafts Advancement Program ; P
Mitch Hefter; Mitch Hefter; P
Jerry Gorrell; USITT; P
Justin Bennett; USITT; A
David E. Miller; Walt Disney Company; P
Erin Grabe; ESTA; ex officio

1 Opening Remarks

Mike Wood called the meeting to order at 15:04. Due to poor audio, he designated Michael Lay as his in-room proxy.

2 Attendance and membership

2.1 Taking attendance and introductions

2.2 Welcome to visitors

2.3 Call for quorum

2.4 Consensus body

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
Mike Skinner	Contract Services Administration Trust Fund	A
Steve Terry	Electronic Theatre Controls, Inc.	P
Todd Spencer	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

Name	Company or representation	Voting status
Mike Wood	Mike Wood Consulting LLC	P
Mitch Hefter	Mitch Hefter	P
Bill Sapsis	Sapsis Rigging, Inc.	P
Jerry Gorrell	USITT	P
Justin Bennett	USITT	A
David E. Miller	Walt Disney Company	P
William Gillett	Walt Disney Company	A
	Total votes possible	14

3 Approval of minutes from the previous meeting

See *TSCmin01-2022_DRAFT.pdf*.

Mitch Hefter moved to approve the minutes. The motion was seconded, and carried without objection or abstention.

4 Patent and anti-trust statements

4.1 Reading of the anti-trust statement

Michael Lay read the following statement aloud to the assembly:

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 the pamphlet for all to see.

4.2 Reading of the call for patents

Michael Lay 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 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

David Miller moved to approve the agenda. The motion was seconded and carried without objection or abstention.

6 Old Business and standing reports

6.1 Financial reports

There are no updated financials due to the short length of time between meetings. They will be distributed in April.

6.1.1 Treasurer's Report and Status of Contributions and Pledges

See financial report to come.

The pledge renewals were delayed last year. We are catching up now, reported Erin.

6.1.2 TSP Fundraising

6.1.3 Accounting of TSP documents sold and downloaded

See SalesReportforTSC_03-2022.pdf.

6.2 Old Business

6.2.1 Technical Standards Program project report

See TSP Project Status Summary_03-2022.pdf.

6.2.2 Working group documents for possible action by the TSC

6.2.2.1 First public reviews

6.2.2.1.1 BSR E1.76 – 202x, Wire Tension Grids

[See BSR_E1-76_2022r1.pdf]

The Floors Working Group may approve a first public review motion.

Karl Ruling explained that an updated version was sent two days ago, with minor changes detailed in the delivery email.

Mike Wood moved to approve first public review. The motion was seconded, and carried without objection or abstention.

6.2.2.1.2 BSR E1.68 – 202x, DMX512 Compatibility and Interoperability

[See BSRE1-68_CP2021-1003r0.pdf]

The CPWG may approve a first public review motion

Mike Lay said that the CPWG had approved it for PR1. Mitch Hefter moved to approve the first public review. The motion was seconded and carried without objection or abstention.

6.2.2.2 Withdrawals

6.2.2.3 Accept as ANS

6.2.2.3.1 BSR E1.22 – 202x, Fire Safety Curtain Systems

See BSR E1_22_PR1 CmmntSmmry.pdf, BSR_E1-22_excerptedRWGmin01-2022_DRAFT.pdf, BSR_E1-22_RWGballot_AcceptANS_Smmry.pdf, and BSR E1-22_202x_Rig2021-2035r0.pdf.

Mitch Hefter moved to approve as an ANS. The motion was seconded. The roll-call vote results are as follows:

Name	Company or representation	Voting status	Yes	No	Abstain
Keith Sklar	Actors' Equity	P	y		
D. Andrew Gibbs, Ph.D.	Amer. Society of Theatre Consultants	P	y		

Name	Company or representation	Voting status	Yes	No	Abstain
R. Duane Wilson	Amer. Society of Theatre Consultants	A			
Michael Lay	Candela Controls, Inc.	P	y		
Matthew Antonucci	Contract Services Administration Trust Fund	P			
Mike Skinner	Contract Services Administration Trust Fund	A	y		
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		
Mike Garl	Mike Garl Consulting LLC	P			
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		
Justin Bennett	USITT	A			
David E. Miller	Walt Disney Company	P	y		
William Gillett	Walt Disney Company	A			
	Total votes possible	14	11	0	0

All voting members present voted to approve the motion. The motion will forward to the ExC.

6.2.2.3.2 BSR E1.69 – 202x, Dimmer performance reporting for LED fixtures

[See [BSR_E1-69_202x-r6.pdf](#) and [PWG_E1-69_BallotResults_Photo_2022-5002.pdf](#)]

Jerry Gorrell moved to approve the draft as an ANS. The motion was seconded. The roll-call vote results are as follows:

Name	Company or representation	Voting status	Yes	No	Abstain
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			
Michael Lay	Candela Controls, Inc.	P	y		
Matthew Antonucci	Contract Services Administration Trust Fund	P			
Mike Skinner	Contract Services Administration Trust Fund	A	y		
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		

Name	Company or representation	Voting status	Yes	No	Abstain
Alan M. Rowe	IATSE Crafts Advancement Program	P	y		
Mike Garl	Mike Garl Consulting LLC	P			
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		
Justin Bennett	USITT	A			
David E. Miller	Walt Disney Company	P	y		
William Gillett	Walt Disney Company	A			
Total votes possible		14	11	0	0

All voting members present voted to approve the motion. The motion will forward to the ExC.

7 New business

7.1 ESTA/ESA joint copyright agreement

The new project request under consideration covers topics not in the original Event Safety Guide. The copyright agreement seems to address only those subjects already covered in the ESG. How does this, or any other such new project impact the current agreement, if at all?

Mike Wood said he felt like this would be covered under the joint copyright agreement. There was brief discussion, all in general agreement, but no action necessary at this time.

7.2 New project request – Weapons Safety (from last meeting)

See TSP_ProjectRequest - Weapon Safety.pdf. After discussion at the last meeting, this item was set aside until this meeting. Erin Grabe was charged with consulting our legal counsel and insurance.

There was discussion. Legal counsel is OK, insurance will be OK, except taking the project could possibly result in a premium increase. Alan Rowe said he thought this would only have a positive benefit. Mike Skinner spoke on current legislation pending in California (CA831), and suggested it might be worthwhile to wait a little while to see how this legislation develops, since they are currently in negotiations with state legislators. Erin Grabe looked up CA831, and said it mentions the SB1 safety bulletin, in the first paragraph.

There was more discussion. Mike Lay said he wasn't getting a good sense of what to do. Keith Sklar moved to accept the project, with the intent to explore formation of a new working group for the project. A roll-call vote was taken, the results of which are as follows:

Name	Company or representation	Voting status	yes	no	abstain
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			
Michael Lay	Candela Controls, Inc.	P	Y		
Matthew Antonucci	Contract Services Administration Trust Fund	P			
Mike Skinner	Contract Services Administration Trust Fund	A			A
Steve Terry	Electronic Theatre Controls, Inc.	P	Y		

Name	Company or representation	Voting status	yes	no	abstain
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			A
Mike Garl	Mike Garl Consulting LLC	P			
Mike Wood	Mike Wood Consulting LLC	P			A
Mitch Hefter	Mitch Hefter	P	Y		
Bill Sapsis	Sapsis Rigging, Inc.	P			
Jerry Gorrell	USITT	P	Y		
Justin Bennett	USITT	A			
David E. Miller	Walt Disney Company	P	Y		
William Gillett	Walt Disney Company	A			
Total votes possible		14	8	0	3

The motion carried with seven assenting votes, three abstentions, and no objections. The TSC directed Karl and Richard to take this decision to the ESWG, along with a request for volunteers to both chair and participate, if a new working group is formed.

7.3 P&P revisions

[See p&p-r16_draft.pdf]

ANSI's Essential Requirements have been revised, and contain a new requirement regarding SDO response time to comments received as a result of PINS notifications. Our P&P must be revised to include this requirement. The revision is located in section 15.2 of the r16 draft, and is submitted for your approval.

Steve Terry moved to approve the revised P&P. The motion was seconded and carried without objection or abstention. Richard will send the approved document to ANSI.

7.4 Other new business

8 Optional reports

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

8.1.1 Control Protocols

Mike Lay reported on projects in progress.

8.1.2 Electrical Power

Justin Bennett reported, two new standards are going to public review with concurrent letter ballots for reaffirmation.

8.1.3 Floors

Jerry Gorrell reported. The tension grid document was just approved for first public review.

8.1.4 Fog and Smoke

8.1.5 Followspot Position

Karl Ruling reported. The permanent positions document is open for revision.

8.1.6 Photometrics

8.1.7 Rigging

Richard Nix reported that the meeting was brief, and summarized the highlights.

8.1.8 Stage machinery

8.1.9 Event Safety

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)

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

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

8.2.3.4 NEC (NFPA 70)

Mitch Hefter reported. The Correlating Committee met in February to review 2nd draft revisions from the panels and issue any correlating actions. Steve Terry has identified at least one issue to resolve regarding outdoor use & ESTA Standards references, NITMAMs are due April 11, 2022.

Mitch Hefter is now Steve Terry's Alternate to Panel 13 representing USITT. (Both still serve on Panel 15). Bill Ellis has applied as ESTA's alternate to Jason Potterf on Panel 18. Mitch received a 25 Year "Club" Pin for service on Panel 15.

Terry pointed out some major changes:

- Changes to Article 530 now makes it clear that it applies to shooting on locations.
- The 400% over-current protection rule only applies to feeder cables.
- Wiring requirements in support areas is also clarified.
- Special purpose multi-circuit cables are now accepted.
- ESTA's E1.19 and E1.58 are now referenced.
- Article 700 Class 2 emergency lighting circuits section has significant changes.

8.2.3.5 NFPA 70E

Nothing to report.

8.2.4 USITT

Mitch Hefter reported. We're here, together, in-person. Attendance today was reported at 3,600, with around 200 exhibitors.

Also, the Bylaws were revised in January for conformance with NY non-profit laws and completing the transition to a governance Board (not operational) effective July 1, 2022; Vice-Presidents positions were removed last

August (sitting VPs complete their terms). The Board adopted a motion to reduce the voting board size from almost 30 down to 15. Sitting directors complete their terms, so the 15 voting member size will not be fully in place until 2025-2026.

Erin asked Karl to write a contribution request letter to USITT.

8.2.5 ICC

Richard Nix reported that he and some entertainment technology engineers met with IBC structural engineers. The latter are proposing higher minimum loads. Richard's group is doing a study of how costly the increased minimum load ratings would be on how we build and transport portable structures.

Mitch Hefter reported that the Electrical Inspectors Association has reached an agreement with the ICC for them to address electrical inspections.

8.2.6 IES

Mitch Hefter reported that the IES Controls Committee has resolved Committee comments on new BSR/IES LP-16 Lighting Practice – Documenting Control Intent Narratives and Sequence of Operation. It will be in Public Review March 11 thru April 25, 2022.

8.2.7 UL

Jerry Gorrell reported a lot of standards approval actions.

8.2.8 ASSP

Jerry Gorrell received his 20-year participation thank you letter.

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. We have many ways to recognize the efforts of volunteers. (line items 9.2, 9.3. and 9.4 below).

9.2 Lifetime Technical Achievement Award

9.3 Volunteer of the Year Award

9.4 Swan Award

9.5 TSP participation fee donor fund

Erin reported. There is still \$400 there.

9.6 INNOVA

Erin reported, they are still looking for content.

10 Schedule for future meetings

The meeting schedule is posted at <http://www.esta.org/ESTA/meetings.php> The Summer 2022 meetings will be held, again in conjunction with the rescheduled NAMM Show 2022, in-person, the week of 30 May 2022, in Anaheim, CA. Discussions are in progress for returning to the DFW Marriott Westlake, in October 2022.

11 Adjournment

The agenda business complete, there being no further business brought forth, Mike Lay adjourned the meeting at 17:02.

Technical Standards Council members

Name	Representing	Status
Matthew Antonucci	Contract Services Administration Trust Fund	A
Justin Bennett	USITT	A
Harry Box	PERG	O
Mike Garl	Mike Garl Consulting LLC	P
William Gillett	Walt Disney Company	A
Jerry Gorrell	USITT	P
Mitch Hefter	Mitch Hefter	P
Edwin S. Kramer	I.A.T.S.E. Local 1	P
Michael Lay	Candela Controls, Inc	P
David E. Miller	Walt Disney Company	P
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
Bill Sapsis	Sapsis Rigging, Inc.	P
Mike Skinner	Contract Services Administration Trust Fund	P
Keith Sklar	Actors' Equity Association	P
Todd Spencer	ESTA President	P
Steve Terry	Electronic Theatre Controls, Inc.	P
R. Duane Wilson	Amer. Society of Theatre Consultants	A
Mike Wood	Mike Wood Consulting LLC	P