

Minutes
Rigging Working Group
Saturday, October 26, 2019
D/FW Marriott Solana
Westlake, TX

Chairpersons:

Bill Sapsis; Sapsis Rigging, Inc; P; U (presiding)
Chris Kaiser; Syracuse Scenery & Stage Lighting, Inc; P; DR

Recording secretaries:

Karl Ruling and Richard Nix; ESTA

Attendees:

Jacob Abbott; PSAV Presentation Services; A; U
Tracie Allen; Tyler Truss Systems; A; CP
Dana Bartholomew; Silver State Wire Rope and Rigging; P; DR
Keith Bohn; Prolyte USA; P; MP
David Bond; Tait Towers Manufacturing LLC; A; CP
Joseph Champelli; Entertainment Project Services, LLC; A; CP
Lee Chuong; Walt Disney Company; A; DE
Jay Cid; R&M Materials Handling / Stagemaker; P; MP
Dan Culhane; Wenger Corp.; A; CP
Bruce Darden; InterAmerica Stage, Inc.; P; CP
David Darland; PSAV Presentation Services; O; U
Don Earl; Earl Girls, Inc.; P; DR
Mike Garl; Mike Garl Consulting LLC; P; DE
Ethan W Gilson; Entertainment Rigging Services, LLC; P; U
Sanford P. Gilzow; Shur-Rig LLC; P; G
William B. Gorlin; M.G. McLaren, P.C.; P; G
Jerry Gorrell; Theatre Safety Programs; P; G
Rod Haney; I.A.T.S.E. Local 891; P; U
Tim Hansen; Oasis Stage Werks; P; DR
Robert Haycock; UC Berkeley; I; U
Jeremy Hodgson; Cirque Du Soleil, Inc.; P; U
Cedric Jackson; Screen Actors Guild - American Federation of Television & Radio Artists; O; G
Joseph Jeremy; Show Distribution Group, Inc.; P; CP
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Tom Lapp; Cirque Du Soleil, Inc.; A; U
Kalen Larson; ZFX, Inc.; P; CP
Jon Lenard; Applied Electronics; A; MP
Daniel H. Louis; Theta Consulting LLC; P; G
Bill McIntyre; Show Distribution Group, Inc.; A; CP
Mike Merz; Steven Schaefer Associates, Inc; A; DE
Orestes Mihaly; Production Resource Group; P; DR
Bartholomew J. Mueller; Recreation Engineering Inc.; P; DE
Shawn Nolan; Production Resource Group; A; DR
Tracy Nunnally; Vertigo; P; CP
Miriam Paschetto; Geiger Engineers; P; DE
John Ringelman; Freeman Companies; P; DR
Ryan Riordan; Accurate Staging, Inc.; P; CP
Tim Salamon; PSAV Presentation Services; O; DR
Chris Schmidt; Freeman Companies; A; DR
Michael Shaw; Motion Laboratories, Inc.; A; MP
Mike Skinner; Contract Services Administration Trust Fund; P; U
Stewart Stephens; Ashford Management Group; P; DR

Jason Tello; Tyler Truss Systems; P; CP
Ken Tilson; Columbus McKinnon Corp.; P; MP
Will Todd; Area Four Industries; P; MP
Elmer Veith; Reliable Design Services; P; CP
Steve Walker; Steve A. Walker & Associates; P; G
Marty Wesstrom; Mountain Productions Inc.; P; DR
Mike Weston; PSAV Presentation Services; O; DR
R. Duane Wilson; Amer. Society of Theatre Consultants; P; DE
Stephan Jon Wood; Tait Towers Manufacturing LLC; P; CP
Paul Zagajeski; Wenger Corp.; A; CP

Visitors:

Cody Forgy; Shur-Rig
Adam Wilds; PSAV
Andrew Rogers; Silver State Wire Rope & Rigging

1 Opening Remarks

Bill Sapsis called the meeting to order at 19:01, welcoming everyone to the meeting and thanking them for their participation. He reminded everyone to silence their cellphones.

He said a few words commemorating Roger Lattin's passing, the previous week.

2 Patent and anti-trust statements

2.1 Reading of the anti-trust statement

Bill Sapsis 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 displayed the pamphlet.

2.2 Reading of the call for patents

Bill Sapsis 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.

3 Attendance and Membership

3.1 Requirements for membership

Bill Sapsis read the following statement aloud to the assembly:

Membership is open to all parties who are affected by the work of the group; membership in ESTA is not a requirement, but there is a \$100/person/year participation fee to help fund the costs of running the Technical Standards Program. Voting members are required to attend meetings and vote on letter ballots. Any principal member and alternate that both miss three consecutive meetings or that miss three consecutive letter ballots will have their membership status changed to observer. This action will be taken at the beginning of the first meeting after such inaction and will be recorded in the minutes of that meeting.

3.2 Introduction of attendees and circulation of sign-in sheet

Bill asked everyone to introduce themselves. Karl Ruling noted the green sign-in sheet before it was circulated, asking everyone to please indicate their presence.

3.3 Determination of a quorum

[There are 59 possible votes. A quorum is 20, a supermajority is 30.]

Bill Sapsis asked the voters in the room, and online, to raise their hands so a count could be taken. After counting he declared that both a quorum and a supermajority were present.

3.4 Processing of new membership and status change requests

As of 16 September 2019, the following applications or status change requests have been received:

*Joe Champelli; Entertainment Project Services, LLC; A; CP (status change request)
Eric Rouse; Entertainment Project Services, LLC; P; CP (change of representation)
Fritz Friedensohn; Entertainment Project Services, LLC; A; CP (new application)
Lynn Snook; Thermotex Industries, Inc; A; U (new application – either she or John Snook needs to be present, and request John’s status change from Observer to Principal. A person can’t be an Alternate to an Observer. Neither was present.)
Mike Skinner; Contract Services Administration Trust Fund; P; U (new application)
Chris Moulton; Contract Services Administration Trust Fund; A; U (status change request)
Phil Hampton; Charcoalblue; O; DE (new application)
Ryan Roby; Production Resource Group; A; DR (new application)
Ryan Kunkel; TAIT Towers Manufacturing, LLC; A; CP (new application)
Michael Shaw; Motion Laboratories, Inc; A; MP (new application)
Ryan Riordan; Accurate Staging; P; MP; (new application)
Keith Bohn; Prolyte; P; MP; (status change O to P)
Sandy Gilzow; Shurrig; P; G; (status change O to P)
David Bond; Kinesys representing TAIT Towers Manufacturing, LLC; A; CP*

Dan Culhane moved to accept the applications as submitted, with exception to those not present but requesting voting status, being accepted with Observer status. The motion carried with no objection or abstention, so Lynn Snook was accepted as an Observer, due to absence.

3.5 Changes to observer status due to lack of attendance or missed letter ballots

3.5.1 Attendance

The following voters have missed two consecutive meetings, and their status will be changed to that of Observer if this meeting is missed:

*Ted Jones; Grand Stage; P; U
Bill Beautyman; Limelight Productions, Inc.; P; DR
Jacob Loretto; Musson Theatrical, Inc; P; DR*

They were not present, so their voting status was change to Observer.

3.5.2 Letter ballots

Responding to letter ballots is a requirement for voting status. The following voters have missed the last two letter ballots and will be moved to Observer status if the next letter ballot is missed.

Roger Lattin; I.A.T.S.E. Local 728 (deceased)
Andrew Young; Andrew Young

3.5.3 Automatic status changes occurring before this meeting

The following individuals have been removed from the TSP roster due to non-payment of the TSP participation fee:

Kent Jorgensen; I.A.T.S.E. Local 80
Nevin Kleege; Kleege Industries

3.6 Consensus body

The table below shows the full consensus voting body during this meeting.

Name	Representing	Status	Int Cat
Ryan Riordan	Accurate Staging, Inc.	P	CP
R. Duane Wilson	Amer. Society of Theatre Consultants	P	DE
Max A. Wilson	Applied Electronics	P	MP
Jon Lenard	Applied Electronics	A	MP
Will Todd	Area Four Industries	P	MP
Stewart Stephens	Ashford Management Group	P	DR
Jeremy Hodgson	Cirque Du Soleil, Inc.	P	U
Tom Lapp	Cirque Du Soleil, Inc.	A	U
Frederic Caron	Cirque Du Soleil, Inc.	A	U
Allen Winzler	Clark-Reder Engineering, Inc.	P	DE
Ken Tilson	Columbus McKinnon Corp.	P	MP
David Carmack	Columbus McKinnon Corp.	A	MP
Nick Fleming	Columbus McKinnon Corp.	A	MP
Mike Skinner	Contract Services Administration Trust Fund	P	U
Chris Moulton	Contract Services Administration Trust Fund	A	U
Don Earl	Earl Girls, Inc.	P	DR
Steven Ricks	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Eric Rouse	Entertainment Project Services, LLC	P	DE
Joseph Champelli	Entertainment Project Services, LLC	A	CP
Joshua "Fritz" Friendensohn	Entertainment Project Services, LLC	A	DE
Ethan W Gilson	Entertainment Rigging Services, LLC	P	U
Charlie Weiner	Eurotruss	P	MP
John Ringelman	Freeman Companies	P	DR
Chris Schmidt	Freeman Companies	A	DR
Miriam Paschetto	Geiger Engineers	P	DE
Reid Neslage	H & H Specialties Inc.	P	MP
Pat Grenfell	Hoist Sales & Service	P	DR
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Rod Haney	I.A.T.S.E. Local 891	P	U
Ross Long	I.A.T.S.E. Local 891	A	U
Bruce Darden	InterAmerica Stage, Inc.	P	CP
Drew Becker	InterAmerica Stage, Inc.	A	CP
Jonathan Deull	JSD Projects LLC	P	U
William B. Gorlin	M.G. McLaren, P.C.	P	G
Peter W. Batt	Mainstage Theatrical Supply, Inc	P	DR
Mike Garl	Mike Garl Consulting LLC	P	DE
Rick Montgomery	Motion Laboratories, Inc.	P	MP
Mike Webb	Motion Laboratories, Inc.	A	MP
Michael Shaw	Motion Laboratories, Inc.	A	MP

Name	Representing	Status	Int Cat
Marty Westrom	Mountain Productions Inc.	P	DR
Tim Hansen	Oasis Stage Werks	P	DR
Ryan Roby	PRG	A	DR
Orestes Mihaly	Production Resource Group	P	DR
Shawn Nolan	Production Resource Group	A	DR
Keith Bohn	Prolyte USA	P	MP
Carlos Ortega	PSAV Presentation Services	P	U
Demian Purdy	PSAV Presentation Services	A	U
Jacob Abbott	PSAV Presentation Services	A	U
Jay Cid	R&M Materials Handling / Stagemaker	P	MP
Jack Gallagher	R&M Materials Handling / Stagemaker	A	MP
Bartholomew J. Mueller	Recreation Engineering Inc.	P	DE
Bennett Brian	Reed Rigging Inc.	P	DR
Elmer Veith	Reliable Design Services	P	CP
Richard J. Nix	Richard J. Nix	I	G
Jesse Adams	Rose Brand Wipers, Inc	P	DR
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Joseph Jeremy	Show Distribution Group, Inc.	P	CP
Bill McIntyre	Show Distribution Group, Inc.	A	CP
Sanford P. Gilzow	Shur-Rig LLC	P	G
Dana Bartholomew	Silver State Wire Rope and Rigging	P	DR
Steve Walker	Steve A. Walker & Associates	P	G
Kyle Kusmer	Steven Schaefer Associates, Inc	P	DE
Mike Merz	Steven Schaefer Associates, Inc	A	DE
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Harold Ike Shippers	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Stephan Jon Wood	Tait Towers Manufacturing LLC	P	CP
David Bond	Tait Towers Manufacturing LLC	A	CP
Ryan Kunkel	Tait Towers Manufacturing LLC	A	CP
Tony Diemont	Texas Scenic Company	P	DR
Russell Solomon	Texas Scenic Company	A	DR
Steven Serafin	The Hartford Group	P	G
Jim Niesel	Theatre Projects Consultants, Inc.	P	DE
Jerry Gorrell	Theatre Safety Programs	P	G
Sam Michael	Thern, Inc.	P	MP
Jeff Wilkowski	Thern, Inc.	A	MP
Daniel H. Louis	Theta Consulting LLC	P	G
Jason Tello	Tyler Truss Systems	P	CP
Tracie Allen	Tyler Truss Systems	A	CP
Robert Haycock	UC Berkeley	I	U
Tracy Nunnally	Vertigo	P	CP
John P. Moore	Vertigo	A	CP
Ian Bevan	Walt Disney Company	P	DE
Lee Chuong	Walt Disney Company	A	DE
Peter V. Svitavsky	Wenger Corp.	P	CP
Dan Culhane	Wenger Corp.	A	CP
Paul Zagajeski	Wenger Corp.	A	CP
Michael Wells	Xtreme Structures and Fabrication	P	MP
Mark Newlin	Xtreme Structures and Fabrication	A	MP
Theresa Kelley	Xtreme Structures and Fabrication	A	MP
Kalen Larson	ZFX, Inc.	P	CP
Andrew Young	Andrew Young	I	U

Total possible votes: 64

Votes by interest category:

Custom market producer (CP): 9
 Designer (DE): 9

Name	Representing	Status	Int Cat
		Dealer or rental company (DR):	13
		General interest (G):	9
		Mass market producer (MP):	13
		User (U):	11

Status key: P = Principal voter, A = Alternate voter, I = Individual voter

4 Approval of the minutes from the last meeting

[See [RWGmin07-2019_DRAFT.pdf](#)]

Dan Culhane moved to approve the minutes. The motion was seconded and carried with no objections, and two abstentions.

5 Approval of agenda

Dan Culhane moved to approve the agenda. The motion was seconded and carried, with no objections or abstentions.

6 Old Business

6.1 ANSI E1.1 – 2018, wire rope ladders (Revise, reaffirm or withdrawal by 27 September 2023)

6.2 BSR E1.2 - 20xx, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers (Last published in 2012 – Open for revision). *Task Group members:* Mike Garl (chair), Jacob Abbott, Keith Bohn, Jerry Gorrell, Jason Tello, Will Todd, Richard Nix, and Elmer Veith.
[See [BSR E1-2_201x_Rig2019-2022r0.pdf](#)]

The draft document is offered to the working group for consideration. Is it ready for its first public review?

Mike Garl reported that everyone should have received the latest draft, and he gave a brief overview of the changes. He noted two topics for WG consideration: reduction factors, and design factors. Dan Culhane gave reasons to keep the reduction factor. Elmer Veith explained that the document requires the manufacturer to state if their loading information does, or does not, include the reduction factor.

Bill Sapsis said he would not like to have an explicit design factor. Others agreed.

Mike Garl moved to send the draft out to its first public review. The motion was seconded. There was discussion about formatting, and agreement to fix formatting issues before PR distribution. There was discussion about referencing specific versions of external standards.

The motion carried unanimously. The motion will be put forth to the Technical Standards Council, for consideration at their upcoming meeting.

6.3 ANSI E1.4-1 - 2016, Entertainment Technology--Manual Counterweight Rigging Systems (Revise, reaffirm, or withdrawal by 11 October 2021)

No news or action.

6.4 BSR E1.4-2 - 201x, Entertainment Technology—Statically Suspended Rigging Systems

Task group members: Bart Mueller (Chair) Ethan Gilson, Ted Jones, Jesse Adams, and Brad Dittmer, Peter Batt
[See [BSR_E1-4-2_PR2_CmmntResols Draft.pdf](#) and [BSR E1-4-2DRAFT_Rig2015-2023r5.pdf](#)]

Proposed comment resolutions and a revised draft are offered for the working group's consideration. Are they acceptable? Is the revised draft ready for its third public review?

Bart Mueller reported that they had discovered a discrepancy between this document and the inspections

document, regarding frequency of inspections. Chris Kaiser elaborated on the nature of the discrepancy, pointing out that the statically suspended standard requires a 1-year frequency, or shorter interval as required by a qualified person, while the inspections document currently requires a 5-year interval. She also acknowledged that there were systems that do not require annual inspections. There was considerable discussion.

Bart moved to accept the draft comment resolutions. The motion was seconded, and carried without objection and with two abstentions.

The inspection frequency requirements in the draft will be revised, based on today's discussions. The revised draft will be brought back to the working group at the next meeting.

6.5 BSR E1.4-3 - 201x, Entertainment Technology - Manually Operated Hoist Rigging Systems

Task group members: Richard Nix and Sam Michael
[E1-4-3_ReviewSummary.pdf]

The letter ballot motion for public review carried, so the document was sent to public review, which closed on 08 October 2019. A comment summary is provided.

Richard Nix said that proposed resolutions and an updated draft revision had been sent to the working group, and moved to accept the draft resolutions. The motion carried unanimously. He then moved to send the revised draft back out to public review. The motion was seconded and carried, with no objections and one abstention.

6.6 ANSI E1.6-1 - 2019, Entertainment Technology--Powered Hoist Systems (Reaffirm, revise or withdraw before 27 January 2024)

6.7 BSR E1.6-2 - 20xx, Entertainment Technology--Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry (last published in 2018 – Open for revision)

Task group members: Ken Tilson, John Ringleman, Ben Brian, Marty Westrom, Rick Montgomery, Chris Schmidt, Mike Weston, Sandy Gilzow, Jack Gallagher, and Elmer Veith (Chair)
[see BSR E1-6-2_20xx_Rig_2019-2027r0.pdf]

The revised draft is offered to the working group for consideration. Is it ready for its first public review?

Elmer Veith moved to send the document out to first public review. The motion was seconded and carried, by show of hands, with no objections or abstentions.

6.8 BSR E1.6-3 - 201x, Selection and Use of Serially Manufactured Chain Hoists in the Entertainment Industry (Last published 2012 – Open for revision)

Task group members: John Ringleman, Ben Brian, Pat Grenfell, Nick Fleming, Charlie Weiner, Rod Haney, Mike Weston, Greg Williams and Elmer Veith (Chair)

The motion to accept as an ANS was carried by both TSC and Executive Committee vote. A BSR9 will be filed with ANSI. It will be published soon!

The prior motions to accept as an ANS were carried by Technical Standards Council and Executive Committee votes.

It's published!

6.9 BSR E1.6-4 - 201x, Control of Electric Chain Hoists in the Entertainment Industry (Last published in 2013 – Open for revision)

Task group members: David Bond, Rod Haney, Rick Montgomery, John Ringleman, Elmer Veith, Jim Hodgson, Steve Wood, Mike Webb, Joe Jeremy (chair).

Any news or updates?

Joe Jeremy reported that they had a very productive task group meeting the previous day. They have reformatted the document and expect to have a document ready by this time next year.

6.10 ANSI E1.8 – 2018, Entertainment Technology—Loudspeaker Enclosures Intended for Overhead Suspension—Classification, Manufacture and Structural Testing (Revise, reaffirm or withdrawal by 29 November 2023)

6.11 ANSI E1.15 - 2006 (R2016), Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (revision, reaffirmation, or withdrawal by 23 September 2021)

6.12 BSR E1.21 - 20xx, Entertainment Technology — Temporary Structures Used for Technical Production of Outdoor Entertainment Events (originally published 19 December 2013 – open for revision)
Task group members: Richard Nix (Chair), Kyle Kusmer, Bill Gorlin, Dan Louis, Steve Serafin, Elmer Veith, Sandy Gilzow, and Rod Haney

It's in Public Review until 29 October 2019. Comments have been received, and will be distributed after the ballot period closes.

Richard Nix asked if anyone intended to offer further PR comment. In the absence of a response, he moved to accept the draft resolutions. The motion was seconded, then carried by supermajority vote, with no objections and five abstentions.

Richard then moved to send the revised draft out to public review predicated on there being no further comments received between now and end of the public review period, in three days. The motion was seconded. Dan Culhane noted that the draft still had legislative-formatted changes that need to be accepted before public review distribution. After discussion, the motion carried with no objections.

6.13 ANSI E1.22 - 2016, Entertainment Technology - Fire Safety Curtain Systems (Revise, reaffirm, or withdrawal by 11 October 2021)

6.14 BSR E1.39 - 201x, Entertainment Technology –Selection and Use of Personal Fall Arrest Systems on Portable Structures Used in the Entertainment Industry (Open for revision)
Task group members: Chris Schmidt, Ethan Gilson (TG Chair), Will Todd, Dana Bartholomew, Shawn Nolan, Rod Haney, Mike Wells, and Bill Sapsis.

*From July's draft meeting minutes:
Ethan Gilson reported that they have met by WebEx and face to face. They have been marking up the document and noting where changes are needed. Changes are motivated by changes in OSHA regulations and products available on the market. Some concrete progress is predicted by October.*

Any news or updates?

6.15 ANSI E1.43 - 2016, Live performer flying effect standard (Revise, reaffirm, or withdrawal by 12 February 2021)

No news or action.

6.16 Rigging Glossary

No news or action.

6.17 BSR E1.47 – 20xx, Recommended Guidelines for Entertainment Rigging System Inspections (Originally published on 28 April 2017 – open for revision)
Task group members: Bart Mueller, Chris Kaiser (chair), Tracy Nunally, Ted Jones, Duane Wilson, Pete Svitavsky, Eric Rouse, Ian Bevan, Russell Solomon

[see BSR_E1-47_PR1CmmntResols_Rig_2019-2028r0 DRAFT.pdf and BSR_E1-47-20xx_Rig_2014-2003r6.pdf]

Proposed comment resolutions and a revised draft are offered for the working group's consideration.

Chris Kaiser reiterated comments from the previous discussion during agenda item 6.4 (BSR E1.4-2). She asked for further discussion, during which the proposed comment resolution #4 was revised, and the inspection table of the draft was also revised.

Chris Kaiser moved to accept the revised draft comment resolutions. The motion carried with no objections or abstentions.

Bruce Darden moved to send the revised draft to public review. The motion carried with no objections or abstentions.

6.18 ANSI E1.50-1 – 2017, Requirements for the Structural Support of Temporary LED, Video & Display Systems (Revision, reaffirmation, or withdrawal by 14 August 2022)

6.19 ANSI E1.56 - 2018, Rigging Support Points Design, Fabrication, Installation, and Testing (Revision, reaffirmation or withdrawal by 06 November 2023)

6.20 BSR E1.67 – 201x, Design, Inspection, Maintenance, Selection, and Use of Hand-operated Chain- and Lever Hoists for the Entertainment Industry

Task Group: Jack Gallagher, Mike Weston, Jake Abbott (TG Chair), Dana Bartholomew; and Charlie Weiner

Any news or updates?

7 New business, automated “practicals”

From July's draft meeting minutes:

Jesse Adams described the SMWG's ad hoc task group to address “Other Machinery”, and asked the working group to consider if “practicals” hoists should be covered under E1.6-1, or not. This is a general question being asked of both RWG and SMWG. He also asked how such a hoist might be defined or qualified in terms of load, speed, direction of movement, etc.

Richard Nix offered to distribute a Doodle poll based on Jesse Adams' wording of the question.

Any news or updates?

Jesse Adams wasn't present. Bill Sapsis suggested that this could be removed from the agenda. Richard Nix reminded everyone that this project comes from the Stage Machinery Working Group. Dan Culhane concurred, then said that the SMWG had agreed to reach out to Jesse to see if the task could be moved forward.

8 Other business and announcements

8.1 NFPA 80 public comment updates

[see 80_A2021_FDW_AAA_FD_PublicInput.pdf]

From Dan Culhane's email:

NFPA-80 had a public review comment period recently and one individual proposed some changes to the Fire Curtain area of the document. These proposed changes revolve around the standards used to test the fire curtain fabric. Enclosed is the entirety of the proposed changes to NFPA-80. The proposed changes that affect Fire Curtains are flagged on pages: 6, 12, 65, 67, 68, and 69.

I wanted to make the RWG aware of these proposed changes and if members have information that these changes will affect the performance of the Fire Curtain they can send their information to Jerry Gorrell, Bill Conner or myself. The NFPA committee is meeting November 13th and 14th to discuss these changes and vote to accept or reject these changes.

Dan Culhane reiterated the message content, adding that most of the comments pertained to fire curtain fabric testing. Bill Sapsis asked if this only impacted new construction, to which Jerry Gorrell replied that it would depend on the AHJ.

8.2 NAMM Sessions

[The following sessions have been proposed for NAMM]

*Rigging Math
Automation in Performer Flight
Truss in the Entertainment Industry - Truth versus Fiction
Working at Height Safely
Motorized Rigging: First response troubleshooting and repair
E1.8 Speaker Enclosures*

Elmer Veith reported that another session had been added the previous day, on the topic of chain hoist electrical troubleshooting. Bill Sapsis reminded everyone about the NAMM registration process.

8.3 Above & Beyond Awards

Information on the Above & Beyond Awards may be found at 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. The website says nominations for this year are due November 1. The awards will be presented at the beginning of next year.

8.4 ESTA document link policy

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.

9 Schedule for future meetings

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

9.1 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 RWG meeting is scheduled for 19:00 PST, Friday 17 January 2020, at the Wyndham Garden Anaheim.

9.2 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.

9.3 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.

10 Adjournment

Having reached the end of the agenda, and there being no further business to address, Bill Sapsis declared the meeting adjourned at 21:16.

Rigging Working Group members as of 01 November 2019

Name	Representing	Status	Int Cat
Jacob Abbott	PSAV Presentation Services	A	U
Jesse Adams	Rose Brand Wipers, Inc	P	DR
Tracie Allen	Tyler Truss Systems	A	CP
Matthew Antonucci	Contract Services Administration Trust Fund	O	U
Brent Armstrong	Alpine Rigging & Structural Design	O	CP
William Ian Auld	Auld Entertainment	O	U
Robert Barbagallo	Solotech Inc.	O	DR
Dana Bartholomew	Silver State Wire Rope and Rigging	P	DR
Peter W. Batt	Mainstage Theatrical Supply, Inc	P	DR
William Beautyman	Limelight Productions, Inc.	O	DR
Drew Becker	InterAmerica Stage, Inc.	A	CP
Justin Bennett	University of the Incarnate Word	O	U
Ian Bevan	Walt Disney Company	P	DE
Roy Bickel	Roy Bickel	O	G
Tyler Bland	Walt Disney Company	O	U
Keith Bohn	Prolyte USA	P	MP
David Bond	Tait Towers Manufacturing LLC	A	CP
William Bradburn	Aerial Arts, Inc.	O	U
Bennett Brian	Reed Rigging Inc.	P	DR
David M. Campbell	Geiger Engineers	O	G
David Carmack	Columbus McKinnon Corp.	A	MP
Frederic Caron	Cirque Du Soleil, Inc	A	U
Joseph Champelli	Entertainment Project Services, LLC	A	CP
Lee Chuong	Walt Disney Company	A	DE
Jay Cid	R&M Materials Handling / Stagemaker	P	MP
Daniel J. Clark	Clark-Reder Engineering, Inc.	O	G
Benjamin Cohen	Chicago Flyhouse Inc.	O	CP
Dan Culhane	Wenger Corp.	A	CP
Bruce Darden	InterAmerica Stage, Inc.	P	CP
David Darland	PSAV Presentation Services	O	U
Robert Dean	ZFX, Inc.	O	CP
Jonathan Deull	JSD Projects LLC	P	U

Rigging Working Group members as of 01 November 2019

Name	Representing	Status	Int Cat
Tony Diemont	Texas Scenic Company	P	DR
Jim Digby	Event Safety Alliance	O	U
Brad Dittmer	Stage Labor of the Ozarks	O	U
Russ Dusek	I Weiss	O	MP
Don Earl	Earl Girls, Inc.	P	DR
Nick Fleming	Columbus McKinnon Corp.	A	MP
Tim Franklin	Theta Consulting LLC	O	G
Joshua "Fritz" Friendensohn	Entertainment Project Services, LLC	A	DE
Jack Gallagher	R&M Materials Handling / Stagemaker	A	MP
Mike Garl	Mike Garl Consulting LLC	P	DE
James M. Garner	Walt Disney Company	O	G
Ethan W Gilson	Entertainment Rigging Services, LLC	P	U
Sanford P. Gilzow	Shur-Rig LLC	P	G
William B. Gorlin	M.G. McLaren, P.C.	P	G
Jerry Gorrell	Theatre Safety Programs	P	G
Michael P. Gosenski	Rigging Systems LLC	O	U
Pat Grenfell	Hoist Sales & Service	P	DR
Phillip R. Hampton	Charcoalblue	O	DE
Rod Haney	I.A.T.S.E. Local 891	P	U
Tim Hansen	Oasis Stage Werks	P	DR
Pete Happe	Pete Happe	O	G
Sean Harding	Port Lighting Systems	O	G
Robert Haycock	UC Berkeley	I	U
Chris Higgs	Total Solutions Group	O	G
Jeremy Hodgson	Cirque Du Soleil, Inc.	P	U
Nick Holmberg	PSAV	O	DR
Donald Hoffend_III	Avista Designs, LLC	O	G
Cedric Jackson	Screen Actors Guild - American Federation of Television & Radio Artists	O	G
Joseph Jeremy	Show Distribution Group, Inc.	P	CP
Ted Jones	Grand Stage	O	U
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Theresa Kelley	Xtreme Structures and Fabrication	A	MP

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Name	Representing	Status	Int Cat
Jerald Kraft	JTH Lighting Alliance	O	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Ryan Kunkel	Tait Towers Manufacturing LLC	A	CP
Kyle Kusmer	Steven Schaefer Associates, Inc	P	DE
Tom Lapp	Cirque Du Soleil, Inc.	A	U
Kalen Larson	ZFX, Inc.	P	CP
Jon Lenard	Applied Electronics	A	MP
Phillip Lewis	Tait Towers Manufacturing LLC	O	CP
Paul "Luke" Lewkowicz	Paul E Lewkowicz PC	O	DE
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Ross Long	I.A.T.S.E. Local 891	A	U
Jacob E. Loretto	Musson Theatrical Inc.	O	DR
Daniel H. Louis	Theta Consulting LLC	P	G
Wendy Manson	Cirque Du Soleil, Inc.	O	U
Bill McIntyre	Show Distribution Group, Inc.	A	CP
Mike Merz	Steven Schaefer Associates, Inc	A	DE
Sam Michael	Thern, Inc.	P	MP
Steven Michelman	Entertainment Project Services, LLC	O	DE
Orestes Mihaly	Production Resource Group	P	DR
Rick Montgomery	Motion Laboratories, Inc.	P	MP
John P. Moore	Vertigo	A	CP
Chris Moulton	Contract Services Administration Trust Fund	A	U
Bartholomew J. Mueller	Recreation Engineering Inc.	P	DE
John Neal	Rhino Staging	O	G
Reid Neslage	H & H Specialties Inc.	P	MP
Mark Newlin	Xtreme Structures and Fabrication	A	MP
Jim Niesel	Theatre Projects Consultants, Inc.	P	DE
Richard J. Nix	Richard J. Nix	I	G
Shawn Nolan	Production Resource Group	A	DR
Tracy Nunnally	Vertigo	P	CP
Carlos Ortega	PSAV Presentation Services	P	U
Gregory Orth	WNP Services, Inc.	O	DR

Rigging Working Group members as of 01 November 2019

Name	Representing	Status	Int Cat
Miriam Paschetto	Geiger Engineers	P	DE
Kurt Pragman	Pragman Associates, LLC	O	G
Demian Purdy	PSAV Presentation Services	A	U
Steven Ricks	Electronic Theatre Controls, Inc.	P	MP
Mark Riddlesperger	LA ProPoint, Inc.	O	CP
John Ringelman	Freeman Companies	P	DR
Ryan Riordan	Accurate Staging, Inc.	P	CP
Ryan Roby	PRG	A	DR
Eric Rouse	Entertainment Project Services, LLC	P	DE
Tim Salamon	PSAV Presentation Services	O	DR
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	O	DE
Chris Schmidt	Freeman Companies	A	DR
Ford Sellers	Chauvet Lighting	O	MP
Steven Serafin	The Hartford Group	P	G
Michael Shaw	Motion Laboratories, Inc.	A	MP
Harold Ike Shippers	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Mike Skinner	Contract Services Administration Trust Fund	P	U
Monica Skjonberg	Skjonberg Controls, Inc.	O	CP
Knut Skjonberg	Skjonberg Controls, Inc.	O	CP
John C. Snook	Thermotex Industries Inc.	O	CP
Lynn M. Snook	Thermotex Industries Inc.	O	CP
Russell Solomon	Texas Scenic Company	A	DR
Todd Spencer	PSAV Presentation Services	O	U
Stewart Stephens	Ashford Management Group	P	DR
Peter V. Svitavsky	Wenger Corp.	P	CP
Ross Taylor	Taylor & Taylor Associates	O	G
Jason Tello	Tyler Truss Systems	P	CP
Ken Tilson	Columbus McKinnon Corp.	P	MP
Will Todd	Area Four Industries	P	MP
Stephen Vanciel	IATSE Local 631	O	U
Elmer Veith	Reliable Design Services	P	CP

Rigging Working Group members as of 01 November 2019

Name	Representing	Status	Int Cat
Steve Walker	Steve A. Walker & Associates	P	G
Patrick Wallace	PSAV Presentation Services	O	U
Mike Webb	Motion Laboratories, Inc.	A	MP
Charlie Weiner	Eurotruss	P	MP
Michael Wells	Xtreme Structures and Fabrication	P	MP
Drew Wending	PSAV Presentation Services	O	DR
Marty Wesstrom	Mountain Productions Inc.	P	DR
Mike Weston	PSAV Presentation Services	O	DR
Jeff Wilkowski	Thern, Inc.	A	MP
Greg Williams	PSAV Presentation Services	O	G
R. Duane Wilson	Amer. Society of Theatre Consultants	P	DE
Max A. Wilson	Applied Electronics	P	MP
Allen Winzler	Clark-Reder Engineering, Inc.	P	DE
Stephan Jon Wood	Tait Towers Manufacturing LLC	P	CP
Jeong Sik Yoo	Ghost LX	O	DE
Andrew Young	Andrew Young	I	U
Paul Zagajeski	Wenger Corp.	A	CP