

Minutes
Rigging Working Group
Friday, 19 Jul 2019
D/FW Marriott Solana
Westlake, TX

Presiding chairperson: Bill Sapsis; Sapsis Rigging

Recording secretaries: Richard J. Nix & Karl G. Ruling; ESTA

Members attending:

Jacob Abbott; PSAV Presentation Services; A; U
Jesse Adams; Rose Brand Wipers, Inc; P; DR
Tracie Allen; Tyler Truss Systems; A; CP
William Ian Auld; Auld Entertainment; O; U
Dana Bartholomew; Silver State Wire Rope and Rigging; P; DR
Peter W. Batt; Mainstage Theatrical Supply, Inc; P; DR
Ian Bevan; Walt Disney Company; P; DE
Bennett Brian; Reed Rigging Inc.; P; DR
David Carmack; Columbus McKinnon Corp.; A; MP
Lee Chuong; Walt Disney Company; A; DE
Dan Culhane; Wenger Corp.; A; CP
Bruce Darden; InterAmerica Stage, Inc.; P; CP
Tony Diemont; Texas Scenic Company; P; DR
Brad Dittmer; Stage Labor of the Ozarks; O; U
Don Earl; Earl Girls, Inc.; P; DR
Jack Gallagher; R&M Materials Handling / Stagemaker; A; MP
Mike Garl; Mike Garl Consulting LLC; P; DE
Ethan W Gilson; Entertainment Rigging Services, LLC; P; U
Sanford P. Gilzow; Shur-Rig LLC; O; G
Jerry Gorrell; Theatre Safety Programs; P; G
Pat Grenfell; Hoist Sales & Service; P; DR
Rod Haney; I.A.T.S.E. Local 891; P; U
Tim Hansen; Oasis Stage Werks; P; DR
Jeremy Hodgson; Cirque Du Soleil, Inc.; P; U
Cedric Jackson; Screen Actors Guild - American Federation of Television & Radio Artists; O; G
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Tom Lapp; Cirque Du Soleil, Inc.; A; U
Jon Lenard; Applied Electronics; A; MP
Paul "Luke" Lewkowicz; Paul E Lewkowicz PC; O; DE
Sam Michael; Thern, Inc.; P; MP
Orestes Mihaly; Production Resource Group; P; DR
Rick Montgomery; Motion Laboratories, Inc.; P; MP
Chris Moulton; Contract Services Administration Trust Fund; P; U
Bartholomew J. Mueller; Recreation Engineering Inc.; P; DE
Reid Neslage; H & H Specialties Inc.; P; 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
John Ringelman; Freeman Companies; P; DR
Tim Salamon; PSAV Presentation Services; O; DR
Bill Sapsis; Sapsis Rigging, Inc.; P; U
Chris Schmidt; Freeman Companies; A; DR
Steven Serafin; The Hartford Group; P; G

Stewart Stephens; Ashford Management Group; P; DR
Peter V. Svitavsky; Wenger Corp.; P; CP
Will Todd; Area Four Industries; P; MP
Elmer Veith; Reliable Design Services; P; CP
Steve Walker; Steve A. Walker & Associates; P; G
Mike Webb; Motion Laboratories, Inc.; A; MP
Michael Wells; Xtreme Structures and Fabrication; P; MP
Marty Wesstrom; Mountain Productions Inc.; P; DR
Mike Weston; PSAV Presentation Services; O; DR
R. Duane Wilson; Amer. Society of Theatre Consultants; P; DE
Allen Winzler; Clark-Reder Engineering, Inc.; P; DE
Stephan Jon Wood; Tait Towers Manufacturing LLC; P; CP

Visitors:

Paul Brunner; Thern, Inc.
James Smith; Encore Event Technologies
Erick Ormberg; Encore Event Technologies
Michael Shaw; Motion Laboratories, Inc.

1 Opening Remarks

Bill Sapsis called the meeting to order at 14:03, welcoming everyone to Westlake, Texas. He thanked those present and on-line for taking time to attend this meeting, and for their participation. He reminded those at the far end of the room to please speak loudly if they must address the group.

2 Patent and anti-trust statements

2.1 Reading of the anti-trust statement

The following statement was read aloud to the assembly by Bill Sapsis:

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 pamphlet. Nothing was revealed.

2.2 Reading of the call for patents

The following statement was read aloud to the assembly by Bill Sapsis:

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

The following statement was read aloud to the assembly by Bill Sapsis:

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.

Bill Sapsis asked that people who had not yet paid their participation fee to do so. Nix said he would note those who had not paid in the October agenda, for all to see.

3.2 Introduction of attendees and circulation of sign-in sheet

Those present in the room and on-line introduced themselves.

3.3 Determination of a quorum

Forty-four voters were present during the meeting (excluding alternates when the principal was present), which was more than the minimum for a quorum and more than 50% of the consensus body.

3.4 Processing of new membership and status change requests

As of 10 July 2019, the following applications or status change requests have been received:

Paul "Luke" Lewkowicz; Paul E. :Lewkowicz, PC; O; DE (new application)
Frederic Caron, Cirque du Soliel; P; U (new application) not present, but Cirque representation already exists.
Keith Bohn; Prolite USA; P; MP (change of employment) Not present
Lee Chuong; Walt Disney Imagineering; A; DE (new application)
Dave Carmack; Columbus McKinnon Corp; A;G
Steve Serafin; The Hartford Group; P; G (change of employment)
Cedric Jackson; SAG-AFTRA; O; G

Dan Culhane moved that we accept the applications as submitted, except the application of Keith Bohn, who shall be accepted as an observer member. The motion was seconded and then approved.

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

3.5.1 Attendance

The following voters have missed three consecutive meetings and have now lost voting status:

Joe Champelli; Entertainment Project Services, LLC; DE.
Steven Michelman; Entertainment Project Services, LLC; DE.
Russ Dusek; I Weiss; MP.

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. There are none at this time.

3.6 Automatic status changes occurring before this meeting

Jack Gallagher reported that Dave Sinkhorn had retired from R&M Materials Handling / Stagemaker. Jay Cid was moved to principal.

3.6 Consensus body

The full consensus voting body during this meeting, including those not present, was:

Delegate	Representing	Voting status	Int. Cat.
R. Duane Wilson	Amer. Society of Theatre Consultants	P	DE

Delegate	Representing	Voting status	Int. Cat.
Andrew Young	Andrew Young	I	U
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
Frederic Caron	Cirque Du Soleil, Inc	A	U
Jeremy Hodgson	Cirque Du Soleil, Inc.	P	U
Tom Lapp	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
Chris Moulton	Contract Services Administration Trust Fund	P	U
Don Earl	Earl Girls, Inc.	P	DR
Steven Ricks	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
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
Ted Jones	Grand Stage	P	U
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
Roger Lattin	I.A.T.S.E. Local 728	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 Beautyman	Limelight Productions, Inc.	P	DR
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

Delegate	Representing	Voting status	Int. Cat.
Mike Webb	Motion Laboratories, Inc.	A	MP
Marty Wesstrom	Mountain Productions Inc.	P	DR
Jacob E. Loretto	Musson Theatrical Inc.	P	DR
Tim Hansen	Oasis Stage Werks	P	DR
Orestes Mihaly	Production Resource Group	P	DR
Shawn Nolan	Production Resource Group	A	DR
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
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
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

Delegate	Representing	Voting status	Int. Cat.
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
	Total votes possible	59	
	Votes by interest category	8	CP
		8	DE
		15	DR
		6	G
		10	MP
		12	U

4 Approval of the minutes from the last meeting

[See [RWGmin03-2019r1_DRAFT.pdf](#)]

Will Todd moved that the minutes be accepted as written. The motion was seconded and then approved.

5 Approval of agenda

Jesse Adams asked for a discussion of “practical hoists,” including how they might be defined and what standards might apply, to be added to New Business.

Dan Culhane moved that the modified agenda be accepted. The motion was seconded and then approved.

6 Old Business

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

No news or action.

6.2 BSR E1.2 - 20xx, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers (Last published in 2012 – Open for revision)

From the March minutes:

Will Todd reported, it is moving along, with another Webex planned next week. Their goal is to provide a document to go out to public review by the July Meeting. A volunteer is being sought to assume the task group leadership role.

Will Todd reported that the task group had met. They have some items they can't agree on and may bring forward to the working group for guidance.

Bill Sapsis appointed Mike Garl as the task group chairman. Keith Bohn had sent an email saying he is too busy with work in his new position to continue as the task group leader. The task group is now Mike Garl (chair), Jacob Abbott, Keith Bohn, Jerry Gorrell, Jason Tello, Will Todd, and Elmer Veith.

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.
[See BSR_E1-4-2_PR2_CmmntSmmry.pdf]

The public review has ended and the comment summary has been distributed to the working group.

Bart Mueller said that a meeting is scheduled for July 30 with the task group. There are 19 comments. Many are not too difficult. He plans to have a set of draft resolutions for the October working group meeting.

Bill Sapsis added Peter Batt to the task group at Batt's request. The task group is now Bart Mueller (Chair), Jesse Adams, Peter Batt, Brad Dittmer, Ethan Gilson, and Ted Jones.

6.5 BSR E1.4-3 - 201x, Entertainment Technology - Manually Operated Hoist Rigging Systems
Task group members: Richard Nix and Sam Michael
[See E1-4-3_2ndReviewDRAFTResols_r2.pdf and BSR_E1-4-3-201x_Rig-2015-2022r10.pdf]

Sam Michaels move that we approve the resolutions. The motion was seconded. In discussion, Dan Culhane noted a slight discrepancy with Resolution 32. The correction will be incorporated into the final distributed draft. the motion was approved unanimously, with no abstentions and no opposition. The motion carried with the required supermajority support.

Tim Hansen moved that the r10 version distributed to the working group be offered for public review. The motion was seconded. All voted in favor, except for two abstentions. The motion carried.

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

It's published! No news or action.

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)

From the March minutes:

Elmer reported that they had been working on public review comment resolutions, and are reviewing them with the commenters, they expect to have a document ready for public review by July.

Elmer Veith reported that the task group intends to have a revised version for the working group to consider at its October meeting.

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)
[See BSR_E1-6-3_PR1CommentSummary.pdf. No comments were received during the public review period. Does the working group wish to consider acceptance as an ANS?]

Elmer Veith moved to accept it as an American National Standard. The motion was seconded. No discussion. The motion will be decided by letter ballot.

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).

Rick Montgomery reported that task group scheduling has been a problem. This project is one being worked on in conjunction with the Stage Machinery Working Group.

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)

No news or action at this time.

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)

No news or action at this time.

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

[See BSR_E1-21_PR1_CmmntRsols_DRAFT.pdf and E1-21_20xx 2018_Rig2010-2025r9.pdf]

Richard Nix moved that we accept the comment resolutions. The motion was seconded. There was discussion of how the resolution to comment 2 was implemented in the revised draft standard. The resolution is “Accept in principle. The wording has been clarified,” but people questioned whether the language had been clarified in a manner that addressed the comment. Nix agreed to work on the language in the revised draft standard. The motion to accept the comment resolutions was approved.

Nix moved that the revised draft be offered for public review, with the question to be decided by letter ballot. That way, people can see the final wording of the response to comment 2. The motion was seconded. “Good idea,” said Chris Kaiser. There was a show of hands in favor of this course of action.

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

No news or action at this time.

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.

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.

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

No news or action at this time.

6.16 Rigging Glossary

No news or update.

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

The public review ended on 09 April 2019, and a comment summary was distributed to the working group. Any news or updates?

No news, reported Chris Kaiser, but she said that the task group will have some sort of a comment resolution for the October meeting.

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)

No news or action.

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

No news or action.

6.20 BSR E1.59 – 20xx, Object Transform Protocol

Task group members: [RWG] Jem Hodgson, Joe Jeremy, Jim Love, Bill McIntyre, and Michael Lichter. [CPWG] Julian Hoare, Roger Lattin, Scott Blair, Dan Murfin, Kevin Loewen, and Rich Dionne

The public review ended on 2 July. Task group is working on comment resolutions This project is largely being driven by CPWG people, reported Jem Hodgson. There was discussion of which working group would be the formal consensus body for the standard. The consensus was that it would be the CPWG.

6.21 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

Jacob Abbott gave an update, saying that the task group had been meeting and were making progress.

7 New business, automated “practicals”

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 Adam's wording of the question.

8 Other business and announcements

8.1 NAMM

Bill Sapsis described the NAMM educational session, and what the RWG had done in the past, covering three days. They are considering adding a fourth day, and are soliciting ideas. Please submit them to Bill Sapsis by 31 August.

8.2 The passing of Gary Justesen

Bill Sapsis noted that Gary Justesen (aka "Frog") recently passed away from a heart attack. Donations are suggested to be made to Behind the Scenes in his honor.

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.

9 Schedule for future meetings

Sapsis noted that the meeting schedule may be found at <http://www.esta.org/ESTA/meetings.php>.

9.1 Fall 2019 meetings (Westlake, TX)

Sapsis announced that the October 2019 meetings will be at the D/FW Marriott Solana, from 24-27 October 2019. The Rigging Working Group is scheduled to meet from 19:00-23:00 on Saturday 26 October. Task groups wishing to meet during this time are strongly encouraged to coordinate their desired meeting slots with Frances Thompson as soon as possible.

9.2 Winter 2020 meetings (Anaheim, CA)

Sapsis announced that the Winter meetings will be held in Anaheim, Ca, in conjunction with the 2020 Winter NAMM Show, 15-19 January 2020. The schedule is still being developed.

10 Adjournment

The agenda having been completed, Bill Sapsis declared the meeting adjourned at 15:42.

Rigging Working Group members as of 2 August 2019

Delegate	Representing	Voting 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.	P	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	O	MP
David Bond	Kinesys	O	MP
William Bradburn	Aerial Arts, Inc.	O	U
Louis Bradfield	Louis Bradfield	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	P	U

Rigging Working Group members as of 2 August 2019

Delegate	Representing	Voting status	Int. cat.
Joseph Champelli	Entertainment Project Services, LLC	O	DE
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
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
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	O	G
William B. Gorlin	M.G. McLaren, P.C.	P	G

Rigging Working Group members as of 2 August 2019

Delegate	Representing	Voting status	Int. cat.
Jerry Gorrell	Theatre Safety Programs	P	G
Michael P. Gosenski	Rigging Systems LLC	O	U
Erin Grabe	ESTA	exf	G
Pat Grenfell	Hoist Sales & Service	P	DR
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	P	U
Kent H. Jorgensen	IATSE Local 80	O	G
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Theresa Kelley	Xtreme Structures and Fabrication	A	MP
Jerald Kraft	JTH Lighting Alliance	O	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Kyle Kusmer	Steven Schaefer Associates, Inc	P	DE
Tom Lapp	Cirque Du Soleil, Inc.	A	U

Rigging Working Group members as of 2 August 2019

Delegate	Representing	Voting status	Int. cat.
Kalen Larson	ZFX, Inc.	P	CP
Roger Lattin	I.A.T.S.E. Local 728	P	U
Jon Lenard	Applied Electronics	A	MP
Phillip Lewis	Tait Towers Manufacturing LLC	O	MP
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.	P	DR
Daniel H. Louis	Theta Consulting LLC	P	G
Wendy Manson	Cirque Du Soleil, Inc.	O	U
Joseph McGeough	Foy Inventerprises, Inc.	O	CP
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	P	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

Rigging Working Group members as of 2 August 2019

Delegate	Representing	Voting status	Int. cat.
Jim Niesel	Theatre Projects Consultants, Inc.	P	DE
Richard J. Nix	Richard J. Nix	I	G
Richard J. Nix	ESTA	exf	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
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
Eric Rouse	Chicago Flyhouse	O	CP
Karl G. Ruling	ESTA	exf	G
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
Steven C. Shaw	Levitating Productions, Inc.	O	MP
Harold Ike Shippers	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR

Rigging Working Group members as of 2 August 2019

Delegate	Representing	Voting status	Int. cat.
Monica Skjonberg	Skjonberg Controls, Inc.	O	CP
Knut Skjonberg	Skjonberg Controls, Inc.	O	CP
John C. 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
James Tomlinson	Team Tomlinson	O	G
Stephen Vanciel	IATSE Local 631	O	U
Elmer Veith	Reliable Design Services	P	CP
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

Rigging Working Group members as of 2 August 2019

Delegate	Representing	Voting status	Int. cat.
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

Voting Status key: P = Principal voter, A = Alternate voter, I = Individual voter; O=Observer; exf=ex officio, staff

Int. Cat. key: CP=Custom-market Producer; DE=Designer; DR=Dealer/Rental company; G=General interest; MP=Mass-market producer; U=User