

Minutes
Rigging Working Group
Saturday, 27 January 2018
Anaheim Hilton
Anaheim, CA

Presiding co-chairs:

Bill Sapsis; Sapsis Rigging, Inc.; P; U
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR

Recording secretaries: Karl Ruling and Erin Grabe; ESTA

Members in attendance:

Jacob Abbott; PSAV Presentation Services; O; U
Dana Bartholomew; Silver State Wire Rope and Rigging; P; DR
William Beautyman; Limelight Productions, Inc.; P; DR
Ian Bevan; Walt Disney Parks & Resorts; P; U
William Bradburn; Aerial Arts, Inc.; P; U
Joseph Champelli; Entertainment Project Services, LLC; P; DE
Jay Cid; R&M Materials Handling / Stagemaker; A; MP
Dan Culhane; J.R. Clancy, Inc.; Wenger Corp.; A; CP
Bruce Darden; InterAmerica Stage, Inc.; P; CP
David Darland; PSAV Presentation Services; O; U
Mike Garl; Mike Garl Consulting LLC; P; DE
William B. Gorlin; McLaren Engineering Group; 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
Herb Hart; Columbus McKinnon Corp.; A; MP
Joseph Jeremy; Niscon Inc.; Show Distribution Group, Inc.; P; MP
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Tom Lapp; Cirque Du Soleil, Inc.; A; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Jon Lenard; Applied Electronics; A; MP
Dan Lisowski; Dept. Of Theatre and Drama; University of Wisconsin - Madison; P; U
Ross Long; I.A.T.S.E. Local 891; O; G
Rick Montgomery; Motion Laboratories, Inc.; P; MP
Bartholomew J. Mueller; Recreation Engineering Inc.; P; DE
Richard J. Nix; I; G
Shawn Nolan; Production Resource Group; A; DR
Tracy Nunnally; Vertigo; P; CP
Carlos Ortega; PSAV Presentation Services; P; U
Demian Purdy; PSAV Presentation Services; A; U
John Ringelman; Stage Rigging, Inc.; Freeman Companies; P; DR
Eric Rouse; Chicago Flyhouse; P; CP
Tim Salamon; PSAV Presentation Services; O; DR
Chris Schmidt; Stage Rigging, Inc.; Freeman Companies; A; DR
Jason Tello; Tyler Truss Systems; P; CP
Elmer Veith; Total Structures, Inc.; P; MP
Steve Walker; Steve A. Walker & Associates; P; G
Mike Webb; Motion Laboratories, Inc.; A; MP
Drew Wending; PSAV Presentation Services; O; DR
Greg Williams; PSAV Presentation Services; O; G
Stephan Jon Wood; Stage Technologies; Tait Towers Manufacturing LLC; P; CP

Visitors:

Chris Moulton; CSATF
Siobhan Gee
David Band; Kinesys
Carmen Savarese; Tomcat
Tim Moran; Tomcat – James Thomas
Mark Honeycutt; Tomcat USA
Eric Lawrence; Area 4
Michael Mackey; PSAV
Timothy McCalister; PSAV
Scott Davis; PSAV

1 Opening remarks

Bill Sapsis called the meeting to order at 7:00 p.m. He thanked everyone for their support and for being present. He offered a special thanks to the person that donated what seems like a hallway for our meeting today!

2 Attendance and membership**2.1 Introductions of those present and taking attendance**

A sign-in sheet was passed around the room while self-introductions took place.

2.2 Call for quorum

Bill Sapsis announced a supermajority present

2.3 Requirements for membership

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

Membership is open to all who are materially affected by the work of the group. People who would be in the designer interest group category are particularly encouraged to join. There is an annual \$100 participation fee for all members. Voting members are required to attend meetings and to vote on letter ballots. Any principal member and voting alternate who both miss three consecutive meetings or letter ballots will have their membership status changed to observer.

2.4 Changes of membership status due to lack of attendance

The following voters have missed the last three meetings and are being moved to Observer status:

Ethan William Gilson; ALPS; Advanced Lighting and Production Services; P; U
Joseph McGeough; Flying by Foy; Foy Invention Enterprises, Inc.; P; CP
Russ Dusek; I Weiss; P; MP
Jerald Kraft; JTH Lighting Alliance; P; CP
Robert Dean; ZFX, Inc.; P; CP
Jason Schumacher; ZFX, Inc.; A; CP

None of the above named members were present. All were moved to observer status.

2.5 Processing of new membership and change in status requests:

As of 27 January 2018, the following new applications or status change requests were received:

Ross Long; IATSE 891; O; G
Sarah Gascione; PSAV; A; DR
Dana Bartholomew; Silver State Wire Rope and Rigging; P; DR (Change in representation)
Nick Fleming; Columbus McKinnon; A; MP

Eddie Kramer moved to approve the requests. The motion was seconded and approved by a show of hands.

2.6 Consensus body

The full consensus body of this working group at the time of this meeting, including those not present, was:

Name	Representing	Voting status	Int cat
William Bradburn	Aerial Arts, Inc.	P	U
R. Duane Wilson	Amer. Society of Theatre Consultants	P	DE
Max A. Wilson	Applied Electronics	P	MP
Jon Lenard	Applied Electronics	A	MP
Donald Hoffend_III	Avista Designs, LLC	P	G
Eric Rouse	Chicago Flyhouse	P	CP
Steven Serafin	Chubb Group of Insurance Companies	P	G
Jeremy Hodgson	Cirque Du Soleil, Inc.	P	U
Tom Lapp	Cirque Du Soleil, Inc.	A	U
Ken Tilson	Columbus McKinnon Corp.	P	MP
Herb Hart	Columbus McKinnon Corp.	A	MP
Nick Fleming	Columbus McKinnon Corp.	A	MP
Dan Gibbs	Crew One Productions	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
Joseph Champelli	Entertainment Project Services, LLC	P	DE
Steven Michelman	Entertainment Project Services, LLC	A	DE
John Ringelman	Freeman Companies	P	DR
Rocky Paulson	Freeman Companies	A	DR
Chris Schmidt	Freeman Companies	A	DR
Theresa Kelley	Full Throttle Films/ VER	P	DR
Miriam Paschetto	Geiger Engineers	P	G
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
Jonathan Osland	I.A.T.S.E. Local 891	A	U
Bruce Darden	InterAmerica Stage, Inc.	P	CP
Stewart Stephens	JSAV	P	DR
Jonathan Deull	JSD Projects LLC	I	U
Keith Bohn	Keith Bohn	I	G
William Beautyman	Limelight Productions, Inc.	P	DR
William B. Gorlin	M.G. McLaren, P.C.	P	G
Mike Adamovich	M.G. McLaren, P.C.	A	G

Name	Representing	Voting status	Int cat
Mike Garl	Mike Garl Consulting LLC	P	DE
Will Todd	Milos Group	P	MP
Charlie Weiner	Milos Group	A	MP
Rick Montgomery	Motion Laboratories, Inc.	P	MP
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
Sarah Gascoine	PSAV Presentation Services	A	U
Dave Sinkhorn	R&M Materials Handling / Stagemaker	P	MP
Jack Gallagher	R&M Materials Handling / Stagemaker	A	MP
Jay Cid	R&M Materials Handling / Stagemaker	A	MP
Bartholomew J. Mueller	Recreation Engineering Inc.	P	DE
Bennett Brian	Reed Rigging Inc.	P	DR
Richard J. Nix	Richard J. Nix	I	G
Jesse Adams	Rose Brand	P	DR
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Joseph Jeremy	Show Distribution Group, Inc.	P	MP
Sanford P. Gilzow	Shur-Rig LLC	P	G
Dana Bartholomew	Silver State Wire Rope and Rigging	P	DR
Brad Dittmer	Stage Labor of the Ozarks	P	U
Steve Walker	Steve A. Walker & Associates	P	G
Kyle Kusmer	Steven Schaefer Associates	P	G
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
Stephen G. Surratt	Texas Scenic Company	P	DR
Russell Solomon	Texas Scenic Company	A	DR
Jim Niesel	Theatre Projects Consultants, Inc.	P	DE
Jerry Gorrell	Theatre Safety Programs	P	G
John C. Snook	Thermotex Industries Inc.	P	CP
Sam Michael	Thern, Inc.	P	MP
Jeff Wilkowski	Thern, Inc.	A	MP

Name	Representing	Voting status	Int cat
Daniel H. Louis	Theta Consulting LLC	P	G
Elmer Veith	Total Structures, Inc.	P	MP
Jason Tello	Tyler Truss Systems	P	CP
Tracie Allen	Tyler Truss Systems	A	CP
Dan Lisowski	University of Wisconsin - Madison	P	U
Tracy Nunnally	Vertigo	P	CP
John P. Moore	Vertigo	A	CP
Ian Bevan	Walt Disney Parks & Resorts	P	U
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
Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter			
Votes by Interest Category:			
Custom-market producer		CP	7
Designer		DE	5
Dealer or rental company		DR	15
General interest		G	11
Mass-market producer		MP	11
User		U	13
Total votes possible:			62

3 Approval of minutes from the previous meeting

See *RIGmin11-2017.pdf*.

Dan Culhane moved to approve the minutes of the last meeting. The motion was seconded and approved by voice votes.

4 ESTA declarations

4.1 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 a 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. No anti-trust concerns were raised.

4.2 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 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 the agenda

Jerry Gorrell moved to approve the agenda. The motion was seconded and approved by voice votes.

6 Old business

6.1 BSR E1.1 – 2012 (R201x), wire rope ladders (open for revision)

See BSR_E1-1_201x_Rig2004-2029r5.pdf and BSR_E1-1_201x_Rig2004-2029r5_TrackedChanges.pdf, distributed on 28 November 2017.

Chris Schmidt noted that the document was revised and distributed. Eddie Kramer moved to send the draft for a public review. The motion was seconded and approved by voice votes. The TSC needs to approve this first public review of the revised standard.

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 draft November 2017 minutes:

Keith Bohn said that the group is just ramping up and intends to bring something for discussion in March.

Elmer Veith reported that the group is in the information-gathering stage.

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 at this time.

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

See BSR_E1-4-2_CmmntSmmry.pdf.

Bart Mueller said that the task group is working through the comments. There will be substantive changes that will require further public review.

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

The official ANSI public review period is 1 December 2017 through 15 January 2018.

The comment summary had been sent out on the 16th of January, but there was no task group report.

6.6 BSR E1.6-1 - 201x, Entertainment Technology--Powered Hoist Systems (last published in 2012--revision, reaffirmation, or withdrawal by 20xx)

The official ANSI public review period is 5 January 2018 through 19 February 2018.

6.7 BSR E1.6-2 - 20xx, Entertainment Technology--Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry (last published in 2013 – Open for revision)

The RWG letter ballot dates are 28 November 2017 through 10 January 2018.

See *RWG_RecircSmmry_ANSBallot_E1-6-2_ANS.pdf*.

Elmer Veith asked if the group can hold until USITT to put resolutions together. There was discussion on whether or not to move the draft forward, despite a majority of the group having voted Yes.

The comments received are good ideas, but the working group feels that the comments will be better addressed in a future edition. Elmer Veith moved that our response to the no votes be:

We feel that the document meets the needs of the industry now and should be published. The objections stated in the no votes will be considered for future editions.

The motion was seconded and carried with two abstentions.

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

Elmer Veith said that there will be a cleaned up document for consideration in July.

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

Dan Lisowski said that the task group met before this meeting to consider the incorporation of variable speed into the standard. The consensus of the task group was that this addition would not be onerous. Dan noted that 95% of the existing clauses would apply, so there may only be a few additions needed. They also feel that the document does need an update to bring it in line with current practices and technological advancements.

6.10 BSR E1.8 – 20xx, Entertainment Technology—Loudspeaker Enclosures Intended for Overhead Suspension—Classification, Manufacture and Structural Testing (Last published in 2013 – Open for revision)

See *BSR_E1-8_201x_Rig1997-2021r17.pdf*, distributed 28 November 2017.

Richard Nix moved to offer the document for public review. The motion was seconded and approved by voice votes.

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)

Richard Nix said the task group met to get their thoughts organized and to drum up key points for discussion. There may be a document for consideration in March, but no promises are being made.

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 ANSI E1.39 - 2015, Entertainment Technology –Selection and Use of Personal Fall Arrest Systems on Portable Structures Used in the Entertainment Industry (Revision, reaffirmation, or withdrawal by 28 January 2020)

No news or action at this time.

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 ANSI E1.44 – 2014, Common Show File Exchange Format for Entertainment Industry Automation Control Systems -- Stage Machinery (revision, reaffirmation, or withdrawal by 6 February 2019)

No news or action at this time.

6.17 Rigging Glossary

This project is still in hiatus, said Chris Kaiser.

6.18 BSR E1.47 – 20xx, Recommended Guidelines for Entertainment Rigging System Inspections

(Originally published on 28 April 2017 – open for revision)

Chris Kaiser said they met today, but there was only a small group. They will try to have a WebEx before USITT. Those in attendance at the TG meeting today were helpful.

6.19 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 at this time.

6.20 BSR E1.56, Rigging Support Points Design, Fabrication, Installation, and Testing

See *BSRE1-56_Rig2015-2034r7_SupportPoints.pdf*, and *E1-56_2ndRevwDraftResols_r1.pdf*.

Shawn Nolan said that there may still be some issues, but the TG feels it is a solid document ready for public review. Shawn Nolan moved to accept the revised comment resolutions. The motion was seconded. The motion carried by voice votes with no opposition or abstentions.

Shawn Nolan then moved to send the document for a third public review. The motion was seconded. The motion was approved by voice vote with no opposition or abstentions.

A typo was noted on page 13. Change than to that in E3.2. This type will be fixed before public review.

6.21 BSR E1.59 – 20xx, Automation Vector Transmission Protocol

Dan Lisowski said that there was a large CPWG contingent at their meeting a few days ago. Maya Nigrosh and he will spend the next couple weeks putting together text for the task group to review in March.

7 New business

7.1 Rigging console protocol

Joe Jeremy said he's been floating this around to see if it has value or what might need to be done. There was considerable discussion about the need for a rigging controls or automation controls standard, or potentially a new working group.

Eddie Kramer moved that the WG appoint a group to research and study the controls sections of our standards to evaluate the commonality of our controls for implementation in future revisions of our standards. The motion was seconded. The motion failed.

Joe Jeremy and Dan Lisowski will take a pass at a new project request, or other form of scope for this body to consider.

7.2 Task group coordination

The task group leader and members of each task group should be listed for each open project. See agenda items for each project and the reflector lists at the end of the minutes.

- **BSR E1.1 – 2012 (R201x), Wire Rope Ladders**
Sandy Gilzow (Chair), Chris Schmidt, Chris Kaiser, and Dan Gibbs
- **BSR E1.2 – 201x, ANSI E1.2 - 2012, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers**
Keith Bohn (Chair), Jason Tello, Will Todd, Jacob Abbott, Jerry Gorrell, Elmer Veith, and Mike Garl

- **BSR E1.4-2 - 201x, Entertainment Technology—Statically Suspended Rigging Systems**
Bart Mueller (Chair) Ethan Gilson, Ted Jones, Jesse Adams, and Brad Dittmer.
- **BSR E1.4-3 - 201x, Entertainment Technology—Manually Operated Hoist Rigging Systems**
Richard Nix and Sam Michael
- **BSR E1.6-1 - 201x, Entertainment Technology—Powered Hoist Systems**
Bruce Darden (chair), Chris Kaiser, Dan Culhane, Pete Svitavsky, Stephan Wood, Steve Ricks, Jim Niesel, Sandy Gilzow, Joe Champelli, and Steve Walker.
- **BSR E1.6-2 - 20xx, Entertainment Technology—Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry**
Ken Tilson, John Ringleman, Ben Brian, Marty Westrom, Rick Montgomery, Chris Schmidt, Herb Hart, Sandy Gilzow, and Elmer Veith (Chair)
- **BSR E1.6-3 - 201x, The Use of Electric Chain Hoists in the Entertainment Industry**
John Ringleman, Dan Lisowski, Herb Hart; Ben Brian, Pat Grenfell, Nick Fleming, Charlie Weiner, Rod Haney, Patrick Wallace, Greg Williams and Elmer Veith (Chair)
- **BSR E1.6-4 - 201x, Control of Electric Chain Hoists in the Entertainment Industry**
Rick Montgomery, John Ringleman, and Dan Lisowski (Chair), Elmer Veith, Jim Hodgson, Steve Wood, Mike Webb, Joe Jeremy
- **BSR E1.8 – 2012 (R201x), Entertainment Technology--Loudspeaker Enclosures Intended for Overhead Suspension--Classification, Manufacture and Structural Testing**
Sandy Gilzow and Jim Niesel
- **BSR E1.21 – 201x, Outdoor stages**
Richard Nix (Chair), Kyle Kusmer, Miriam Paschetto, Bill Gorlin, Dan Louis, Steve Serafin, Elmer Veith, Sandy Gilzow, and Rod Haney
- **BSR E1.47, Rigging systems inspections**
Bart Mueller, Chris Kaiser (chair), Tracy Nunally, Ted Jones, Duane Wilson, Pete Svitavsky, Eric Rouse, Ian Bevan, Russell Solomon
- **BSR E1.56, Rigging Support Points Design, Fabrication, Installation, and Testing**
Carlos Ortega (Chair), Demian Purdy, Mike Wells, Shawn Nolan, Jonathan Duell, and Chris Schmidt.
- **BSR E1.59 – 20xx, Automation Vector Transmission Protocol**
[RWG] Jem Hodgson, Joe Jeremy, Jim Love, Michael Lichter, and Dan Lisowski (Chair)
[CPWG] Julian Hoare, Roger Lattin, Scott Blair, Dan Murfin, Kevin Loewen, and Rich Dionne

8 Other business and announcements

8.1 Above & Beyond Awards

Bill Sapsis said that the nomination site is open year round at estalink.us/aboveandbeyond.

Chris Kaiser offered to help anyone struggling with words. She then presented Steve Walker with an Above and Beyond Award. Steve received a round of applause.

8.2 CEN standards update

BS EN 17206, Entertainment Technology - Lifting and Load-bearing Equipment for Stages and other Production Areas within the Entertainment Industry - Specifications for general requirements (excluding aluminum and steel trusses and towers), is in public review through 6 March 2018 at <https://standardsdevelopment.bsigroup.com/>, Karl Ruling reported.

8.3 Investors in Innovation

It was noted that more Investors are still needed.

8.4 New World Rigging Symposium

Bill Sapsis advised those interested in the NWRS to visit <http://esta.org/events/symposium/nwrs.html> for information.

9 Schedule for future meetings

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

9.1 March meetings

Bill Sapsis said that the March meetings will take place in conjunction with USITT 2018 in Fort Lauderdale, FL. The show dates are 14-17 March 2018. The RWG meeting is scheduled for 15 March 2018, from 7-11 p.m. at the Hilton Ft. Lauderdale Marina.

9.3 July meetings

Bill Sapsis said that the July meetings are tentatively scheduled to be held 19-24 July 2018 at the D/FW Marriott Solana in Westlake, TX. Erin Grabe added that the RWG meeting is scheduled for Friday, 20 July 2018, 2-6 p.m.

10 Adjournment

Roger Lattin moved to adjourn. The motion was seconded. Hearing no objections, Bill Sapsis declared the meeting adjourned at 8:25 p.m.

Name	Company	Representing	Voting status	Int cat
Jacob Abbott	PSAV Presentation Services	PSAV Presentation Services	O	U
Mike Adamovich	McLaren Engineering Group	M.G. McLaren, P.C.	A	G
Jesse Adams	Rose Brand	Rose Brand	P	DR
Tracie Allen	Tyler Truss Systems	Tyler Truss Systems	A	CP
Matthew Antonucci	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	O	U
Brent Armstrong	Alpine Rigging & Structural Design	Alpine Rigging & Structural Design	O	CP
William Ian Auld	Auld Entertainment	Auld Entertainment	O	U
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Roger Barrett	Star Events Group Ltd.	Star Events Group Ltd.	O	DR
Dana Bartholomew	Silver State Wire Rope and Rigging	Silver State Wire Rope and Rigging	P	DR
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Ian Bevan	Walt Disney Parks and Resorts	Walt Disney Parks & Resorts	P	U
Roy Bickel	Roy Bickel	Roy Bickel	O	G
Scott M. Blair	Full Throttle Films/ VER	Full Throttle Films/ VER	O	DR
Keith Bohn	Keith Bohn	Keith Bohn	I	G
William Bradburn	Aerial Arts, Inc.	Aerial Arts, Inc.	P	U
Louis Bradfield	Louis Bradfield	Louis Bradfield	O	U
Bennett Brian	Reed Rigging Inc.	Reed Rigging Inc.	P	DR
David M. Campbell	Geiger Engineers	Geiger Engineers	O	G
Joseph Champelli	Entertainment Project Services, LLC	Entertainment Project Services, LLC	P	DE
Jay Cid	R&M Materials Handling / Stagemaker	R&M Materials Handling / Stagemaker	A	MP
Daniel J. Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	O	G
Benjamin Cohen	Chicago Flyhouse Inc.	Chicago Flyhouse Inc.	O	CP
Dan Culhane	J.R. Clancy, Inc.	Wenger Corp.	A	CP
Bruce Darden	InterAmerica Stage, Inc.	InterAmerica Stage, Inc.	P	CP
David Darland	PSAV Presentation Services	PSAV Presentation Services	O	U
Robert Dean	ZFX, Inc.	ZFX, Inc.	O	CP

Name	Company	Representing	Voting status	Int cat
Jonathan Deull	JSD Projects LLC	JSD Projects LLC	I	U
Jim Digby	Event Safety Alliance	Event Safety Alliance	O	U
Brad Dittmer	Stage Labor of the Ozarks	Stage Labor of the Ozarks	P	U
Russ Dusek	I Weiss	I Weiss	O	MP
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	P	DR
Nick Fleming	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Tim Franklin	Theta Consulting LLC	Theta Consulting LLC	O	G
Jack Gallagher	R&M Materials Handling / Stagemaker	R&M Materials Handling / Stagemaker	A	MP
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	P	DE
James M. Garner	Walt Disney Studios - Disney Theatrical Group	Walt Disney Studios	O	G
Sarah Gascoine	PSAV Presentation Services	PSAV Presentation Services	A	U
Dan Gibbs	Crew One Productions	Crew One Productions	P	U
Ethan William Gilson	ALPS	Advanced Lighting and Production Services	O	U
Sanford P. Gilzow	Shur-Rig LLC	Shur-Rig LLC	P	G
William B. Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Michael P. Gosenski	Rigging Systems LLC	Rigging Systems LLC	O	U
Erin Grabe	ESTA	ESTA	exf	G
Pat Grenfell	Hoist Sales & Service	Hoist Sales & Service	P	DR
Rod Haney	I.A.T.S.E. Local 891	I.A.T.S.E. Local 891	P	U
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Pete Happe	Pete Happe	Pete Happe	O	G
Sean Harding	Port Lighting Systems	Port Lighting Systems	O	G
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Chris Higgs	Total Solutions Group	Total Solutions Group	O	G
Jeremy Hochman	Full Throttle Films/ VER	Full Throttle Films/ VER	O	DR
Jeremy Hodgson	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	P	U

Name	Company	Representing	Voting status	Int cat
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	P	G
Joseph Jeremy	Niscon Inc.	Show Distribution Group, Inc.	P	MP
Ted Jones	Art Drapery Studios	Grand Stage	P	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	O	DR
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Theresa Kelley	Full Throttle Films/ VER	Full Throttle Films/ VER	P	DR
Jerald Kraft	JTH Lighting Alliance	JTH Lighting Alliance	O	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Kyle Kusmer	Entertainment Structures Group	Steven Schaefer Associates	P	G
Tom Lapp	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	A	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Jon Lenard	Applied Electronics	Applied Electronics	A	MP
Michael Lichter	Electronic Theatre Controls, Inc. (DE)	Electronic Theatre Controls, Inc.	A	MP
Dan Lisowski	Dept. Of Theatre and Drama	University of Wisconsin - Madison	P	U
Ross Long	I.A.T.S.E. Local 891	I.A.T.S.E. Local 891	O	G
Jacob E. Loretto	Musson Theatrical Inc.	Musson Theatrical Inc.	P	DR
Daniel H. Louis	Theta Consulting LLC	Theta Consulting LLC	P	G
Wendy Manson	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	O	U
Joseph McGeough	Flying by Foy	Foy Invenerprises, Inc.	O	CP
Sam Michael	Thern, Inc.	Thern, Inc.	P	MP
Steven Michelman	Entertainment Project Services, LLC	Entertainment Project Services, LLC	A	DE
Orestes Mihaly	Production Resource Group	Production Resource Group	P	DR
Rick Montgomery	Motion Laboratories, Inc.	Motion Laboratories, Inc.	P	MP
John P. Moore	Vertigo	Vertigo	A	CP
Bartholomew J. Mueller	Recreation Engineering Inc.	Recreation Engineering Inc.	P	DE
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP

Name	Company	Representing	Voting status	Int cat
Mark Newlin	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	A	MP
Jim Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	DE
Richard J. Nix	Richard J. Nix	Richard J. Nix	I	G
Shawn Nolan	Production Resource Group	Production Resource Group	A	DR
Tracy Nunnally	Vertigo	Vertigo	P	CP
Carlos Ortega	PSAV Presentation Services	PSAV Presentation Services	P	U
Gregory Orth	WNP Services, Inc.	WNP Services, Inc.	O	DR
Jonathan Osland	I.A.T.S.E. Local 891	I.A.T.S.E. Local 891	A	U
Miriam Paschetto	Geiger Engineers	Geiger Engineers	P	G
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	A	DR
Kurt Pragman	Pragman Associates, LLC	Pragman Associates, LLC	O	G
Demian Purdy	PSAV Presentation Services	PSAV Presentation Services	A	U
Steven Ricks	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Mark Riddlesperger	LA ProPoint, Inc.	LA ProPoint, Inc.	O	CP
John Ringelman	Stage Rigging, Inc.	Freeman Companies	P	DR
Eric Rouse	Chicago Flyhouse	Chicago Flyhouse	P	CP
Karl G. Ruling	ESTA	ESTA	exf	G
Tim Salamon	PSAV Presentation Services	PSAV Presentation Services	O	DR
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	Scheu Consulting Services, Inc.	O	DE
Chris Schmidt	Stage Rigging, Inc.	Freeman Companies	A	DR
Jason Schumacher	ZFX, Inc.	ZFX, Inc.	O	CP
Joseph S. Schuster	Simpson Gumpertz & Heger	Simpson Gumpertz & Heger	O	DE
Ford Sellers	Chauvet Lighting	Chauvet Lighting	O	MP
Steven Serafin	Chubb Group of Insurance Companies	Chubb Group of Insurance Companies	P	G
Steven C. Shaw	Levitating Productions, Inc.	Levitating Productions, Inc.	O	MP
Harold Ike Shippers	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR

Name	Company	Representing	Voting status	Int cat
Dave Sinkhorn	R&M Materials Handling / Stagemaker	R&M Materials Handling / Stagemaker	P	MP
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP
Knut Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP
Russell Solomon	Texas Scenic Company	Texas Scenic Company	A	DR
Todd Spencer	PSAV Presentation Services	PSAV Presentation Services	O	U
Stewart Stephens	JSAV	JSAV	P	DR
Stephen G. Surratt	Texas Scenic Company	Texas Scenic Company	P	DR
Peter V. Svitavsky	J.R. Clancy, Inc.	Wenger Corp.	P	CP
Ross Taylor	Taylor & Taylor Associates	Taylor & Taylor Associates	O	G
Jason Tello	Tyler Truss Systems	Tyler Truss Systems	P	CP
Ken Tilson	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Will Todd	Tomcat USA, Inc.	Milos Group	P	MP
James Tomlinson	Team Tomlinson	Team Tomlinson	O	G
Stephen Vanciel	IATSE Local 631	IATSE Local 631	O	U
Elmer Veith	Total Structures, Inc.	Total Structures, Inc.	P	MP
Steve Walker	Steve A. Walker & Associates	Steve A. Walker & Associates	P	G
Patrick Wallace	PSAV Presentation Services	PSAV Presentation Services	O	U
Mike Webb	Motion Laboratories, Inc.	Motion Laboratories, Inc.	A	MP
Charlie Weiner	Tomcat USA, Inc.	Milos Group	A	MP
Michael Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP
Drew Wending	PSAV Presentation Services	PSAV Presentation Services	O	DR
Marty Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	P	DR
Mike Weston	PSAV Presentation Services	PSAV Presentation Services	O	DR
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	A	MP
Greg Williams	PSAV Presentation Services	PSAV Presentation Services	O	G
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	P	DE

Name	Company	Representing	Voting status	Int cat
Max A. Wilson	Applied Electronics	Applied Electronics	P	MP
Stephan Jon Wood	Stage Technologies	Tait Towers Manufacturing LLC	P	CP
Nicholas Gill Wright	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	G
Jeong Sik Yoo	Ghost LX	Ghost LX	O	DE
Paul Zagajeski	J.R. Clancy, Inc.	Wenger Corp.	A	CP

Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter, O = Observer member, exf = Ex Officio member (staff)

Interest Category Key: CP = Custom-market producer, DE = Designer, DR = Dealer or rental company, G = General interest, MP = Mass-market producer, U = User