

Minutes
Rigging Working Group
Wednesday, 21 October 2015, 7pm-11pm
Westgate Las Vegas Casino & Resort
Las Vegas, NV

Presiding co-chairs:

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

Recording secretaries:

Karl G. Ruling; PLASA NA
Erin Grabe; PLASA NA

Members in attendance:

Jesse Adams; Rose Brand; P; DR
Tracie Allen; R&M Materials Handling; A; MP
Frank Allison; O; G
Matthew Antonucci; Contract Services Administration Trust Fund; P; U
Scott Battaglia; LMG Inc.; P; DR
William Beautyman; Limelight Productions, Inc.; P; DR
Keith Bohn; I; G
William Bradburn; Aerial Arts, Inc.; P; U
Stu Cox; ZFX Flying Inc.; A; CP
Dan Culhane; SECOA; P; CP
Bruce Darden; Rigging Innovators, Inc.; P; CP
Jonathan Deull; JSD Projects LLC; I; U
Brad Dittmer; Stage Labor of the Ozarks; P; U
Russ Dusek; I Weiss; P; MP
Don Earl; Earl Girls, Inc.; P#; DR
Patrick Finn; J.R. Clancy Inc.; Wenger Corp.; A; CP
Nick Fleming; Walt Disney Parks and Resorts U.S.; Walt Disney Company; A; U
Mike Garl; Mike Garl Consulting LLC; P; DE
Ethan William Gilson; ALPS; Advanced Lighting and Production Services; P; U
Sanford P. Gilzow; Shur-Rig LLC; O; G
William B. Gorlin; McLaren Engineering Group; M.G. McLaren, P.C.; P; G
Jerry Gorrell; Theatre Safety Programs; P; G
Pat Grenfell; Hoist Sales & Service; P; DR
Tim Hansen; Oasis Stage Werks; P; DR
Pete Happe; Walt Disney Imagineering; Walt Disney Company; P; U
Herb Hart; Columbus McKinnon Corp.; A; MP
Jeremy Hochman; Full Throttle Films/ VER; O; DR
Donald Hoffend III; Avista Designs, LLC; A; G
Christopher Jacobs; Virginia Beach City Public Schools; P; U
Joseph Jeremy; Niscon Inc.; Show Distribution Group, Inc.; P; MP
Ted Jones; Art Drapery Studios; P; U
Stephen Lars Klein; O; DE
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
Daniel H. Louis; Theta Consulting LLC; P; G
Joseph McGeough; Flying by Foy; Foy Inventerprises, Inc.; P; CP
Sam Michael; Thern, Inc.; P; MP
Orestes Mihaly; Production Resource Group; P; DR
Hank Miller; W.E. Palmer Co.; O; CP

Rick Montgomery; R&M Materials Handling; P; MP
Bartholomew J. Mueller; Recreation Engineering Inc.; O; DE
Reid Neslage; H & H Specialties Inc.; P; MP
Jim Niesel; Theatre Projects Consultants, Inc.; P; DE
Richard J. Nix; Entertainment Structures Group; Steven Schaefer Associates; P; G
Shawn Nolan; Production Resource Group; A; DR
Tracy Nunnally; Hall Associates Flying Effects; P; CP
Kimberly Corbett Oates; Schuler Shook; P; DE
Carlos Ortega; PSAV Presentation Services; O; U
Gregory Orth; WNP Services, Inc.; P; DR
Miriam Paschetto; Geiger Engineers; P; G
Woody Pyeatt; A V Pro, Inc.; P; DR
Gregory Quinkert; Motion Laboratories; A; CP
Robert Ramsey; WNP Services, Inc.; A; DR
Steven Ricks; Electronic Theatre Controls, Inc.; P; MP
John Ringelman; Stage Rigging, Inc.; Freeman Companies; P; DR
Heather Rowe; Contract Services Administration Trust Fund; A; U
Peter A. Scheu; Scheu Consulting Services, Inc.; P; DE
Chris Schmidt; Stage Rigging, Inc.; Freeman Companies; A; DR
Joseph S. Schuster; Simpson Gumpertz & Heger; P; DE
Steven Serafin; Chubb Group of Insurance Companies; O; G
John C. Snook; Thermotex Industries Inc.; P; CP
Stephen G. Surratt; Texas Scenic Company; P; DR
Peter V. Svitavsky; J.R. Clancy, Inc.; Wenger Corp.; P; CP
Will Todd; Tomcat USA, Inc.; Milos Group; P; MP
James Tomlinson; Team Tomlinson; O; G
Stephen Vanciel; O; U
Elmer Veith; Total Structures - Eastern US Sales Office; Total Structures, Inc.; A; MP
Michael Viehmeyer; O; U
Steve Walker; Steve A. Walker & Associates; P; G
Charlie Weiner; Tomcat USA; Milos Group; A; MP
Michael Wells; Xtreme Structures and Fabrication; P; MP
R. Duane Wilson; George C. Izenour Associates; Amer. Society of Theatre Consultants; P; DE
Max A. Wilson; Applied Electronics; P; MP
Stephan Jon Wood; Stage Technologies; Tait Towers Manufacturing LLC; P; CP
Paul Zagajeski; J.R. Clancy, Inc.; Wenger Corp.; A; CP

1 Opening remarks

Bill Sapsis called the meeting to order promptly at 7pm. He thanked everyone for being in the room and for all the efforts spent on task groups and this working group.

2 Attendance and membership

2.1 Introductions of those present and taking attendance

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

2.2 Call for quorum

Bill Sapsis announced a quorum and supermajority by count of a forest of raised hands.

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. However, 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 two meetings and are in jeopardy of being moved to Observer status if this meeting is also missed:

Robert Young; Arup; P; DE
Michael Parrella; Arup; A; DE

No representative from Arup was present and the above voters were moved to observers.

2.5 Processing of new membership and change in status requests:

As of 2 October 2015, the following applications have been received and logged:

James M. Garner; Walt Disney Studios - Disney Theatrical Group; O; G [Note: All other Disney reps are U]
Don Earl; Earl Girls, Inc.; O to P; DR
Scott Battaglia; LMG Inc.; P; DR
Stephan Jon Wood; Stage Technologies; Tait Towers Manufacturing LLC; P; CP
Paul Zagajeski; J.R. Clancy, Inc.; Wenger Corp.; A; CP
Tracie Allen; R&M Materials Handling; A; MP
Heather Rowe; Contract Services Administration Trust Fund; A; U
Ted Jones; Art Drapery Studios from Chgo Spotlight;
Ken Tilson; Columbus McKinnon Corp.; A to P
Herb Hart; Columbus McKinnon Corp.; P to A

Ethan Gilson moved to approve the applications and changes in status. The motion was seconded and carried with no opposition or abstentions.

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	Interest category
Woody Pyeatt	A V Pro, Inc.	P	DR
Ethan William Gilson	Advanced Lighting and Production Services	P	U
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
Ted Jones	Art Drapery Studios	P	U
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G
Donald Hoffend_III	Avista Designs, LLC	A	G
Galen Price	Blue Man Group	P	U
Ken Tilson	Columbus McKinnon Corp.	P	MP
Herb Hart	Columbus McKinnon Corp.	A	MP
David Carmack	Columbus McKinnon Corp.	A	MP
Jennifer O'Leary	Columbus McKinnon Corp.	A	MP
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Heather Rowe	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

Name	Representing	Voting status	Interest category
Nils Becker	Electronic Theatre Controls, Inc.	A	MP
Edward A. (Ted) Paget	Electronic Theatre Controls, Inc.	A	MP
Joseph Champelli	Entertainment Project Services, LLC	P	DE
Steven Michelman	Entertainment Project Services, LLC	A	DE
Joseph McGeough	Foy Invenerprises, Inc.	P	CP
John Ringelman	Freeman Companies	P	DR
Rocky Paulson	Freeman Companies	A	DR
Chris Schmidt	Freeman Companies	A	DR
Miriam Paschetto	Geiger Engineers	P	G
Reid Neslage	H & H Specialties Inc.	P	MP
Tracy Nunnally	Hall Associates Flying Effects	P	CP
John P. Moore	Hall Associates Flying Effects	A	CP
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
Russ Dusek	I Weiss	P	MP
Jonathan Deull	JSD Projects LLC	I	U
Jerald Kraft	JTH Lighting Alliance	P	CP
Keith Bohn	Keith Bohn	I	G
William Beautyman	Limelight Productions, Inc.	P	DR
Scott Battaglia	LMG Inc.	P	DR
William B. Gorlin	M.G. McLaren, P.C.	P	G
Mike Adamovich	M.G. McLaren, P.C.	A	G
Mike Garl	Mike Garl Consulting LLC	P	DE
Will Todd	Milos Group	P	MP
Scott Johnson	Milos Group	A	MP
Charlie Weiner	Milos Group	A	MP
Vincent J. Cannavale	Motion Laboratories	P	CP
Peter Herrmann	Motion Laboratories	A	CP
David Herrmann	Motion Laboratories	A	CP
Gregory Quinkert	Motion Laboratories	A	CP
Marty Wesstrom	Mountain Productions Inc.	P	DR
Tim Hansen	Oasis Stage Werks	P	DR
Orestes Mihaly	Production Resource Group	P	DR
Shawn Nolan	Production Resource Group	A	DR
Rick Montgomery	R&M Materials Handling	P	MP

Name	Representing	Voting status	Interest category
Tracie Allen	R&M Materials Handling	A	MP
Bruce Darden	Rigging Innovators, Inc.	P	CP
Jesse Adams	Rose Brand	P	DR
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	P	DE
Kimberly Corbett Oates	Schuler Shook	P	DE
Joshua Grossman	Schuler Shook	A	DE
Bob McVay	Schuler Shook	A	DE
Dan Culhane	SECOA	P	CP
Joseph Jeremy	Show Distribution Group, Inc.	P	MP
Jean-Phillippe Robitaille	Show Distribution Group, Inc.	A	MP
Joseph S. Schuster	Simpson Gumpertz & Heger	P	DE
Brad Dittmer	Stage Labor of the Ozarks	P	U
Steve Walker	Steve A. Walker & Associates	P	G
Richard J. Nix	Steven Schaefer Associates	P	G
Kyle Kusmer	Steven Schaefer Associates	A	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
Mark Ager	Tait Towers Manufacturing LLC	A	CP
Stephen G. Surratt	Texas Scenic Company	P	DR
Rick Rosas	Texas Scenic Company	A	DR
Joel A Guerra	Texas Scenic Company	A	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
Daniel H. Louis	Theta Consulting LLC	P	G
Adrian Forbes-Black	Total Structures Inc.	P	MP
Elmer Veith	Total Structures, Inc.	A	MP
Theresa Kelley	Total Structures Inc.	A	MP
Dan Lisowski	University of Wisconsin - Madison	P	U
John Van_Arsdale	University of Wisconsin - Madison	A	U
Christopher Jacobs	Virginia Beach City Public Schools	P	U
Pete Happe	Walt Disney Company	P	U

Name	Representing	Voting status	Interest category
Jeff T. Miller	Walt Disney Company	A	U
Earle T. Greene	Walt Disney Company	A	U
Ian Bevan	Walt Disney Company	A	U
Nick Fleming	Walt Disney Company	A	U
Peter V. Svitavsky	Wenger Corp.	P	CP
Patrick Finn	Wenger Corp.	A	CP
Paul Zagajeski	Wenger Corp.	A	CP
Gregory Orth	WNP Services, Inc.	P	DR
Robert Ramsey	WNP Services, Inc.	A	DR
Michael Wells	Xtreme Structures and Fabrication	P	MP
Mark Newlin	Xtreme Structures and Fabrication	A	MP
Robert Dean	ZFX Flying Inc.	P	CP
Stu Cox	ZFX Flying Inc.	A	CP
Sandy Harned	ZFX Flying Inc.	A	CP
Jason Schumacher	ZFX Flying Inc.	A	CP
Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter			
Votes by Interest Category:			
Custom-market producer		CP	10
Designer		DE	7
Dealer or rental company		DR	13
General interest		G	8
Mass-market producer		MP	11
User		U	14
Total votes possible:			63

3 Approval of minutes from the previous meeting

See the draft minutes of the July meeting, *RIGmin07-2015.pdf*.

Dan Culhane moved to approve the minutes of the July meeting as drafted. The motion was seconded and approved with one abstention.

4 PLASA declarations

4.1 Reading of the anti-trust statement

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

PLASA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all PLASA 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 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 PLASA meeting, please bring your concern to PLASA management. An easy to read pamphlet describing the antitrust laws is available from the PLASA staff.

Erin Grabe and Karl Ruling held up copies of the pamphlet. Nothing was reported.

4.2 Reading of the NEW call for patents

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

PLASA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. PLASA uses a process of open patent and copyright disclosures to implement its intent. PLASA 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 reported.

5 Approval of the agenda

Dan Culhane moved to approve the agenda as drafted. The motion was seconded and approved no opposition or abstentions.

6 Old business

6.1 ANSI E1.1 - 2012, wire rope ladders (revision, reaffirmation, or withdrawal by 2017)

No news at this time.

6.2 ANSI E1.2 - 2012, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers (revision, reaffirmation, or withdrawal by 2017)

No news at this time.

6.3 BSR E1.4-1 - 201x, Entertainment Technology--Manual Counterweight Rigging Systems

This draft standard ended its second public review at the end of the day 28 September 2015. See Summary_E1-4-1_ScndRevwComments.pdf. In addition to comments received, an objection to a resolution from the first review was received, see ObjectionToE1-4-1_FrstRevwResols.pdf.

Richard Nix reported good progress at the task group meeting earlier in the day.. He noted that most of the comment resolutions have been drafted, and that they will have something to the working group for January.

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

Ethan Gilson spoke. He noted a disruption with the task group meeting cycle, which means that there is now an opportunity to get comments from the working group back to the task group by mid-november. He also asked for help on harmonizing this draft with the other parts of E1.4.

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

Richard Nix said that the group is going to take one last pass through the resolutions. Miriam Paschetto's comments were taken into consideration and a document will be sent to the working group by the next meeting.

6.6 ANSI E1.6-1 - 2012, Entertainment Technology--Powered Hoist Systems (revision, reaffirmation, or withdrawal by 2017)

Bruce Darden said that a task group should be formed by January to have a document for review by 2017. Bruce Darden said that he is willing to serve on task group. Bill Sapsis said that the question will be asked in January.

6.7 ANSI E1.6-2 - 2013, Entertainment Technology--Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry (revision, reaffirmation, or withdrawal by 2018)

Bill Sapsis said that the group should consider scheduling/staggering the projects to not have them pile up together in the future. Karl Ruling added that reaffirmations take less time, unless comments come in suggesting change, and revisions are typically only a couple reviews long. No other news on this standard.

6.8 ANSI E1.6-3 - 2012, Safe Use of Electric Chain Hoists in the Entertainment Industry (revision, reaffirmation, or withdrawal by 2017)

No news at this time.

6.9 ANSI E1.6-4 - 2013, Control of Electric Chain Hoists in the Entertainment Industry (revision, reaffirmation, or withdrawal by 2018)

No news at this time.

6.10 ANSI E1.8 - 2012, Entertainment Technology--Loudspeaker Enclosures Intended for Overhead Suspension--Classification, Manufacture and Structural Testing (revision, reaffirmation, or withdrawal by 2017)

No news at this time.

6.11 ANSI E1.15 - 2006 (R2011), Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (revision, reaffirmation, or withdrawal by 2016)

No news at this time.

6.12 ANSI E1.21 - 2013, Entertainment Technology — Temporary Structures Used for Technical Production of Outdoor Entertainment Events (revision, reaffirmation, or withdrawal by 2018)

No news at this time.

6.13 BSR E1.22 - 20xx, Entertainment Technology - Fire Safety Curtain Systems

This draft standard ended its second public review at the end of the day 28 September 2015. See E1-22_ScndRevwCommentSummary.pdf.

Dan Culhane said that the task group will have something for the working group to consider in January.

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 2020)

No news at this time.

6.15 BSR E1.43 - 201x, Live performer flying effect standard

This draft standard was in public review until the end of the day 28 September 2015. See E1-43_ThrdRvw_CommentSmmry.pdf, E1-43_ThrdRvw_DraftResols.pdf, and BSR_E1-43_Rig2013-2039r10.pdf.

Bill Gorlin noted some changes to the draft resolutions as distributed. The working group amended the resolutions to the consensus of the group.

Ethan Gilson moved to accept the resolutions as amended. The motion was seconded and approved with two abstentions. The resolutions, as approved, make no substantive changes to the draft standard.

Bill Gorlin moved to accept the draft standard as an American National Standard. The motion was seconded and there were an overwhelming show of hands in support of the motion, but it must be decided by letter ballot.

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

No news at this time.

6.17 Rigging Glossary

Chris Kaiser spoke on the difficulty with getting a meeting scheduled having no E1 designation. The consensus of the group was to call the project the Rigging Glossary Task Group.

6.18 BSR E1.47 - 201x Recommended Guidelines for Entertainment Rigging System Inspections

Chris Kaiser said that comment resolutions were drafted, but that some additional informal comments came in that the group will have another meeting to discuss.

6.19 BSR E1.50—Video wall project

Charlie Weiner asked for the working group to send any comments on the draft to him and the task group. He apologized for the delay and said that the task group will try to have something for January.

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

Shawn Nolan said the task group has some contentious items and needs feedback. They meet tomorrow, and will release a draft by 6 November, with a request for informal comments from the working group to be sent back by 15 December. Carlos Ortega added that Shawn Nolan is doing a great job leading the task group.

7 New business

7.1 TSP participation fee

Bill Sapsis asked if there were any questions. There were none.

8 Other business and announcements

8.1 PLASA EU and NA

Mike Garl spoke and strongly suggested that folks attend the annual general meeting on Thursday. Everyone should have received a letter about the de-merger. He added that programs such as the TSP and ETCP aren't going anywhere, that standards are being referenced in code, and the Investors in Innovation program is being expanded. He urged people for their support during this time.

8.2 Above & Beyond Awards

Bill Sapsis noted that the nomination site is open year round at tsp.plasa.org/AboveandBeyond.

8.3 CEN standards update

Bill Sapsis said that Ron Bonner briefed the group and there was essentially no new news.

9 Schedule for future meetings

See <http://na.plasa.org/news/meetings.php> for the most current schedule.

9.1 January 2016 meetings

Bill Sapsis said that the January meetings are tentatively scheduled for Thursday through Sunday, 28-31 January 2016 at the D/FW Marriott Solana in Westlake, TX.

9.2 USITT 2016

Bill Sapsis said that USITT 2016 is scheduled to be held in Salt Lake City, UT. The conference dates are 16-19 March 2016.

9.3 July 2016 meetings in conjunction with NATEAC

Bill Sapsis said that the July 2016 meetings will be held in conjunction with NATEAC in New York City. Meeting dates are tentatively scheduled for 14-18 July, while the conference dates are 17-18 July 2016. Information on the conference is available at <http://www.nateac.org/>.

He added that there are open session slots and any suggestions should be forwarded to him.

9.4 LDI 2016

Bill Sapsis noted that LDI 2016 will be exactly 52 weeks after this LDI.

9.5 USITT 2017 & 2018

Bill Sapsis noted that USITT 2017 is scheduled to be held in St. Louis, MO. USITT 2018 is scheduled to be held in Ft. Lauderdale, FL.

10 Adjournment

Pat Grenfell moved to adjourn the meeting. The motion was seconded. Hearing no opposition, Bill Sapsis declared the meeting adjourned at 7:58 p.m.

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Mike	Adamovich	McLaren Engineering Group	M.G. McLaren, P.C.	A	G			
Jesse	Adams	Rose Brand	Rose Brand	P	DR			
Mark	Ager	Stage Technologies	Tait Towers Manufacturing LLC	A	CP			
Tracie	Allen	R&M Materials Handling	R&M Materials Handling	A	MP			
Frank	Allison	Frank Allison	Frank Allison	O	G			
Matthew	Antonucci	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	P	U			
Brent	Armstrong	Alpine Rigging & Structural Design	Alpine Rigging & Structural Design	O	U			
John	Arsdale	University of Wisconsin - Madison	University of Wisconsin - Madison	A	U			
William	Auld	Auld Entertainment	Auld Entertainment	O	U			
Warren	Bacon	Warren A. Bacon	Warren A. Bacon	O	U			
Rinus	Bakker	Rhino Rigs B.V.	Rhino Rigs B.V.	O	G			
Robert	Barbagallo	Solotech Inc.	Solotech Inc.	O	DR			
Roger	Barrett	Star Events Group Ltd.	Star Events Group Ltd.	O	DR			
Scott	Battaglia	LMG Inc.	LMG Inc.	P	DR			
F. Robert	Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	O	G			
William	Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR			
Nils	Becker	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP			
Maria	Bement	MGM Grand	MGM Grand	O	U			
Ian	Bevan	Walt Disney Parks and Resorts	Walt Disney Company	A	U			
Roy	Bickel	Roy Bickel	Roy Bickel	O	G			
Scott	Blair	Full Throttle Films/VER	Full Throttle Films/VER	O	DR			
Lee	Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Steve	Bodzioch	LMG Inc.	LMG Inc.	O	DR			
Keith	Bohn	Keith Bohn	Keith Bohn	I	G			
Ron	Bonner	PLASA Technical Resources Office	PLASA EU	O	G			
William	Bradburn	Aerial Arts, Inc.	Aerial Arts, Inc.	P	U			
Louis	Bradfield	Louis Bradfield	Louis Bradfield	O	U			
Buddy	Braile	Bestek Lighting & Staging	Bestek Lighting & Staging	O	U			
Barry	Brazell	Barry Brazell	Barry Brazell	O	U			
André	Broucke	André Broucke	André Broucke	O	G			
David	Campbell	Geiger Engineers	Geiger Engineers	O	G			
Vincent	Cannavale	Motion Laboratories	Motion Laboratories	P	CP			
Timothy	Carlson	Circus Juventas	Circus Juventas	O	G			
David	Carmack	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP			
Michael	Carnaby	Mikan Theatricals	Mikan Theatricals	O	DR			
Joseph	Champelli	Entertainment Project Services, LLC	Entertainment Project Services, LLC	P	DE			
Daniel	Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	O	G			
Benjamin	Cohen	Reed Rigging, Inc.	Reed Rigging, Inc.	O	DR			
Ian	Coles	Total Structures, Inc.	Total Structures, Inc.	O	MP			
Gregory	Collis	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	G			
Stu	Cox	ZFX Flying Inc.	ZFX Flying Inc.	A	CP			
Dan	Culhane	SECOA	SECOA	P	CP			
Bruce	Darden	Rigging Innovators, Inc.	Rigging Innovators, Inc.	P	CP			
Randall	Davidson	Risk International & Associates, Inc.	Risk International & Associates, Inc.	O	U			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Robert	Dean	ZFX Flying Inc.	ZFX Flying Inc.	P	CP			
François	Deffarges	Nexo	Nexo	O	MP			
Jonathan	Deull	JSD Projects LLC	JSD Projects LLC	I	U			
Jim	Digby	The Collaborative Endeavor Group	Linkin Park Touring/The Collective	O	U			
Brad	Dittmer	Stage Labor of the Ozarks	Stage Labor of the Ozarks	P	U			
Russ	Dusek	I Weiss	I Weiss	P	MP			
Don	Earl	Earl Girls, Inc.	Earl Girls, Inc.	P	DR			
Noga	Eilon-Bahar	Eilon Engineering Industrial Weighing Systems	Eilon Engineering Industrial Weighing Systems	O	MP			
Douglas	Eldredge	LMG Inc.	LMG Inc.	O	DR			
James	Evans	Mountain Productions Inc.	Mountain Productions Inc.	O	DR			
Patrick	Finn	J.R. Clancy Inc.	Wenger Corp.	A	CP			
Nick	Fleming	Walt Disney Parks and Resorts U.S.	Walt Disney Company	A	U			
Adrian	Forbes-Black	Total Structures, Inc.	Total Structures Inc.	P	MP			
Howard	Forryan	Harting Ltd.	Harting KGAA	O	G			
Tim	Franklin	Theta Consulting LLC	Theta Consulting LLC	O	G			
Luca	Galante	Alfa System Sas	Alfa System Sas	O	CP			
Tony	Galuppi	Tony J. Galuppi	Tony J. Galuppi	O	U			
Mike	Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	P	DE			
James	Garner	Walt Disney Studios - Disney Theatrical Group	Walt Disney Company	O	G			
Ed	Garstkiewicz	Harting Inc., North America	Harting KGAA	O	G			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Chris	Geisler	Fluid Design Inc.	Fluid Design Inc.	O	DE			
Ethan	Gilson	ALPS	Advanced Lighting and Production Services	P	U			
Sanford	Gilzow	Shur-Rig LLC	Shur-Rig LLC	O	G			
Rand	Goddard	W.E. Palmer Co.	W.E. Palmer Co.	O	CP			
Reuben	Goldberg	Technic Services	Technic Services	O	U			
William	Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G			
Jerry	Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G			
Michael	Gosenski	Rigging Systems LLC	Rigging Systems LLC	O	U			
Erin	Grabe	PLASA NA	PLASA NA	exf	G			
Thomas	Granucci	Associated Students, Cox Arena	San Diego State University	O	U			
Earle	Greene	Walt Disney Parks and Creative Entertainment	Walt Disney Company	A	U			
Pat	Grenfell	Hoist Sales & Service	Hoist Sales & Service	P	DR			
Joshua	Grossman	Schuler Shook	Schuler Shook	A	DE			
Joel	Guerra	Texas Scenic Company	Texas Scenic Company	A	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	Walt Disney Imagineering	Walt Disney Company	P	U			
Sean	Harding	High Output, Inc.	High Output, Inc.	O	G			
Greg	Hareld	Kleege Industries	Kleege Industries	O	U			
Sandy	Harned	ZFX Flying Inc.	ZFX Flying Inc.	A	CP			
Dean	Hart	Stage Rigging, Inc.	Freeman Companies	O	U			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Herb	Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP			
Philip	Heron	San Francisco Opera Assn.	San Francisco Opera Assn.	O	U			
Peter	Herrmann	Motion Laboratories	Motion Laboratories	A	CP			
David	Herrmann	Motion Laboratories	Motion Laboratories	A	CP			
Ted	Hickey	OAP Audio Products	OAP Audio Products	O	MP			
Chris	Higgs	Total Solutions Group	Total Solutions Group	O	G			
Jeremy	Hochman	Full Throttle Films/VER	Full Throttle Films/VER	O	DR			
Daniel	Houser	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	O	U			
Donald	Ill	Avista Designs, LLC	Avista Designs, LLC	A	G			
Christopher	Jacobs	Virginia Beach City Public Schools	Virginia Beach City Public Schools	P	U			
Wes	Jenkins	Down Stage Right Industries	Down Stage Right Industries	O	CP			
Joseph	Jeremy	Nison Inc.	Show Distribution Group, Inc.	P	MP			
Peter	Johns	Total Structures, Inc.	Total Structures, Inc.	O	MP			
Scott	Johnson	Tomcat USA, Inc.	Milos Group	A	MP			
Ted	Jones	Art Drapery Studios	Art Drapery Studios	P	U			
Kent	Jorgensen	IATSE Local 80	IATSE Local 80	O	G			
Donald	Jr	Avista Designs, LLC	Avista Designs, LLC	P	G			
Gary	Justesen	Oasis Stage Werks	Oasis Stage Werks	O	DR			
John	Kaes	John Kaes	John Kaes	O	U			
Christine	Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR			
JoAnna	Kamorin-Lloyd	Vincent Lighting Systems	Vincent Lighting Systems	O	U			
Theresa	Kelley	Total Structures, Inc.	Total Structures Inc.	A	MP			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Nevin	Kleege	Kleege Industries	Kleege Industries	O	U			
Stephen	Klein	Stephen Lars Klein	Stephen Lars Klein	O	DE			
Jerald	Kraft	JTH Lighting Alliance	JTH Lighting Alliance	P	CP			
Edwin	Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U			
Kristen	Kuipers	Newcomb & Boyd	Newcomb & Boyd	O	DE			
Kyle	Kusmer	Entertainment Structures Group	Steven Schaefer Associates	A	G			
Ken	Lager	LaFace & McGovern Associates	LaFace & McGovern Associates	O	DR			
Jon	Lagerquist	South Coast Repertory	South Coast Repertory	O	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			
John	Lenep	Theatrix Inc.	Theatrix Inc.	O	DR			
Mylan	Lester	Creation Logics Ltd.	Creation Logics Ltd.	O	U			
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			
Baer	Long	Ninja Rigging	Act 1 Rigging Inc.	O	G			
Dennis	Lopez	Automatic Devices Co.	Automatic Devices Co.	O	MP			
Daniel	Louis	Theta Consulting LLC	Theta Consulting LLC	P	G			
Jeff	Lucas	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	O	G			
Darren	Lucier	North Guard Fall protection Inc.	North Guard Fall protection Inc.	O	U			
Sam	Lunetta	Michael Andrews	Michael Andrews	O	DR			
Wendy	Manson	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	O	U			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Magali	Marcheschi	Polytechnic Montreal	Polytechnic Montreal	O	G			
Gary	Mardling	Kish Rigging	Kish Rigging	O	DR			
Chuck	McClelland	Jeamar Winches Inc.	Jeamar Winches Inc.	O	MP			
Joseph	McGeough	Flying by Foy	Foy Inven enterprises, Inc.	P	CP			
Bob	McVay	Schuler Shook	Schuler Shook	A	DE			
Richard	Mecke	Texas Scenic Company	Texas Scenic Company	O	DR			
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			
Hank	Miller	W.E. Palmer Co.	W.E. Palmer Co.	O	CP			
Jeff	Miller	Worldwide Standards and Auditing	Walt Disney Company	A	U			
John	Miller	University of North Carolina School of the Arts	University of North Carolina School of the Arts	O	U			
Shaun	Millington	SEW-Eurodrive, Inc.	SEW-Eurodrive, Inc.	O	MP			
Timothy	Mills	Geiger Engineers	Geiger Engineers	O	G			
Scott	Mohr	R&R Cases and Cabinets	R&R Cases and Cabinets	O	G			
Rick	Montgomery	R&M Materials Handling	R&M Materials Handling	P	MP			
John	Moore	Hall Associates Flying Effects	Hall Associates Flying Effects	A	CP			
Bartholomew	Mueller	Recreation Engineering Inc.	Recreation Engineering Inc.	O	DE			
John	Munro	animaenagerie	animaenagerie	O	U			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Bob	Murphy	Occams Razor Technical Services	Occams Razor Technical Services	O	G			
Reid	Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP			
Mark	Newlin	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	A	MP			
Rikki	Newman	Rikki Newman	Rikki Newman	O	U			
Jim	Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	DE			
Richard	Nix	Entertainment Structures Group	Steven Schaefer Associates	P	G			
Shawn	Nolan	Production Resource Group	Production Resource Group	A	DR			
Tracy	Nunnally	Hall Associates Flying Effects	Hall Associates Flying Effects	P	CP			
Jennifer	O'Leary	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP			
Kimberly	Oates	Schuler Shook	Schuler Shook	P	DE			
Carlos	Ortega	PSAV Presentation Services	PSAV Presentation Services	O	U			
Gregory	Orth	WNP Services, Inc.	WNP Services, Inc.	P	DR			
Edward	Paget	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP			
Michael	Parrella	Arup	Arup	O	DE			
Miriam	Paschetto	Geiger Engineers	Geiger Engineers	P	G			
Michael	Patterson	Pook Diemont & Ohl, Inc.	Pook Diemont & Ohl, Inc.	O	CP			
Rocky	Paulson	Stage Rigging, Inc.	Freeman Companies	A	DR			
Ben	Peoples	Pittsburgh Hoist & Sandbag Company	Pittsburgh Hoist & Sandbag Company	O	CP			
G	Phillips	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	U			
Philip	Pisczak	The National Telephone Supply Company	The National Telephone Supply Company	O	G			
Kurt	Pragman	Pragman Associates, LLC	Pragman Associates, LLC	O	G			
Galen	Price	Blue Man Group	Blue Man Group	P	U			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Woody	Pyeatt	A V Pro, Inc.	A V Pro, Inc.	P	DR			
Gregory	Quinkert	Motion Laboratories	Motion Laboratories	A	CP			
Robert	Ramsey	WNP Services, Inc.	WNP Services, Inc.	A	DR			
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			
Timo	Risku	Akumek	Akumek	O	DE			
Jean-Phillippe	Robitaille	Show Distribution Group, Inc.	Show Distribution Group, Inc.	A	MP			
Rick	Rosas	Texas Scenic Company	Texas Scenic Company	A	DR			
Heather	Rowe	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	A	U			
Karl	Ruling	PLASA NA	PLASA NA	exf	G			
Shawn	Sack	A.C.T. Lighting	A.C.T. Lighting	O	DR			
Bill	Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U			
Peter	Scheu	Scheu Consulting Services, Inc.	Scheu Consulting Services, Inc.	P	DE			
Chris	Schmidt	Stage Rigging, Inc.	Freeman Companies	A	DR			
Jason	Schumacher	ZFX Flying Inc.	ZFX Flying Inc.	A	CP			
Joseph	Schuster	Simpson Gumpertz & Heger	Simpson Gumpertz & Heger	P	DE			
Ford	Sellers	Chauvet Lighting	Chauvet Lighting	O	MP			
Steven	Serafin	Chubb Group of Insurance Companies	Chubb Group of Insurance Companies	O	G			
Steven	Shaw	Levitating Productions, Inc.	Levitating Productions, Inc.	O	MP			
Harold	Shippers	Syracuse Scenery & Stage Lighting Co.Inc.	Syracuse Scenery & Stage Lighting Co.Inc.	A	DR			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Q	Sickels	Q. Brian Sickels	Q. Brian Sickels	O	G			
Monica	Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP			
Knut	Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP			
William	Sloan	William Scott Sloan	William Scott Sloan	O	U			
John	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			
Michael	Sr	Middle Dept. Inspection Agency, Inc.	Middle Dept. Inspection Agency, Inc.	O	G			
Rob	Stevenson	SEW-Eurodrive, Inc.	SEW-Eurodrive, Inc.	O	MP			
Joachim	Stoecker	CAMCO GmbH	CAMCO GmbH	O	MP			
Stephen	Surratt	Texas Scenic Company	Texas Scenic Company	P	DR			
Karl	Sutter-III	Kimley-Horn and Associates, Inc.	Kimley-Horn and Associates, Inc.	O	DE			
Andy	Sutton	AFX UK Ltd.	AFX UK Ltd.	O	U			
Peter	Svitavsky	J.R. Clancy, Inc.	Wenger Corp.	P	CP			
Ross	Taylor	Taylor & Taylor Associates	Taylor & Taylor Associates	O	G			
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	Stephen Vanciel	Stephen Vanciel	O	U			
Elmer	Veith	Total Structures - Eastern US Sales Office	Total Structures, Inc.	A	MP			
Michael	Viehmeyer	Michael Viehmeyer	Michael Viehmeyer	O	U			
Steve	Walker	Steve A. Walker & Associates	Steve A. Walker & Associates	P	G			

Rigging Working Group members as of 21 October 2015

Name		Company	Representing	Voting status	Int cat			
Charlie	Weiner	Tomcat USA	Milos Group	A	MP			
Michael	Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP			
Marty	Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	P	DR			
Jeff	Wilkowski	Thern, Inc.	Thern, Inc.	A	MP			
R	Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	P	DE			
Max	Wilson	Applied Electronics	Applied Electronics	P	MP			
Stephan	Wood	Stage Technologies	Tait Towers Manufacturing LLC	P	CP			
Nicholas	Wright	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	G			
Jiantong	Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G			
Robert	Young	Arup	Arup	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