

Minutes
Rigging Working Group
Friday, 30 March 2012
Westin Long Beach
Long Beach, CA

Chairman: Bill Sapsis; Sapsis Rigging, Inc.; P; U

Recording secretary: Karl G. Ruling; PLASA

Members attending:

Woody Pyeatt; A V Pro, Inc.; A V Pro, Inc.; P; DR
R. Duane Wilson; George C. Izenour Associates, representing ASTC; A; DE
Robert Young; Arup; A; DE
Herb Hart; Columbus McKinnon Corp.; P; MP
Shawn Sack; Columbus McKinnon Corp.; A; MP
Edward A. (Ted) Paget; Daktronics Automated Rigging Solutions (Daktronics Inc.); P; CP
Harvey Sweet; Electronic Theatre Controls, Inc.; P; MP
Michael Lichter; Electronic Theatre Controls, Inc. (DE); A; MP
Dana Bartholomew; Fisher Technical Services, Inc.; P; CP
Rocky Paulson; Stage Rigging, Inc. (the Freeman Companies); P; DR
John Ringelman; Stage Rigging, Inc. (the Freeman Companies); A; DR
Reid Neslage; H & H Specialties Inc.; P; MP
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
John (Jack) Miller; I Weiss; P; CP
Tray Allen; James Thomas Engineering, Inc.; P; MP
William Beautyman; Limelight Productions, Inc.; P; DR
William B. Gorlin; McLaren Engineering Group (M.G. McLaren, P.C.); P; G
Pat Grenfell; Mainstage Theatrical Supply, Inc.; P; DR
Donald Halchak; Mountain Productions Inc.; P; DR
Tim Hansen; Oasis Stage Werks; P; DR
Ron Bonner; PLASA Technical Resources Office, PLASA EU; P; G
Shawn Nolan; Production Resource Group; A; DR
Rick Montgomery; R&M Materials Handling; P; MP
Benjamin Cohen; Reed Rigging, Inc.; P; DR
Kimberly Corbett; Schuler Shook; P; DE
Dan Culhane; SECOA; P; CP
Monica Skjonberg; Skjonberg Controls, Inc.; O; CP
Knut Skjonberg; Skjonberg Controls, Inc.; O; CP
Steve Walker; Steve A. Walker & Associates; P; G
Richard J. Nix; Entertainment Structures Group (Steven Schaefer Associates); P; G
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR
Stephen G. Surratt; Texas Scenic Company; P; DR
Jerry Gorrell; Theatre Safety Programs; P; G
John C. Snook; Thermotex Industries Inc.; O; CP
Jeff Wilkowski; Thern, Inc.; P; MP
Adrian Forbes-Black; Total Structures Inc.; P; MP
Kandie Koed; Total Structures Inc.; A; MP
Dan Lisowski; Dept. Of Theatre and Drama (University of Wisconsin - Madison); P; U
Keith Bohn; Tomcat USA, Inc. (Vitec Group plc); P; MP
Will Todd; Tomcat USA, Inc. (Vitec Group plc); A; MP
Pete Happe; Walt Disney Imagineering (Walt Disney Company); P; U
Jeff T. Miller; Worldwide Standards and Auditing (Walt Disney Company); A; U

Peter V. Svitavsky; J.R. Clancy Inc. (Wenger Corp.); P; CP
Rodney F. Kaiser; J.R. Clancy Inc. (Wenger Corp.); A; CP
Joseph Champelli; ZFX Flying Inc.; P; CP

There were no visitors.

1 Opening remarks

Bill Sapsis called the meeting to order at 19:04. He thanked all for attending. He noted that the weather is colder in Long Beach than it is Back East.

2 Attendance and membership

2.1 Introduction of those present

Those present introduced themselves.

2.2 Circulation of attendance sign-in sheet

A hot pink sign-in sheet was circulated.

2.3 Call for quorum

(At this point there were 52 voting members: 18 needed for a quorum, 27 to pass a supermajority vote)

Bill Sapsis asked for a show of hands of voters. He counted the upraised hands and then announced that a quorum was present.

2.4 Requirements for membership

Sapsis reminded the assembly that 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.

2.5 Changes of membership status resulting from lack of attendance.

The following voters and their alternates have missed the last two consecutive meetings, and will be moved to observer status if they miss this one:

Jeff Wilkowski; Thern, Inc.; MP

Wilkowski was present, so there was no change in his voting status.

2.6 Processing of new membership requests

Applications:

Sam Lunetta; Michael Andrews; Observer; Dealer or rental company
Timo Risku; Akumek; Observer; Designer
Benjamin Cohen; Reed Rigging, Inc.; Principal; Dealer or rental company
William Scott Sloan; Observer; User
Kandie Koed; Total Structures, Inc.; Alternate; Mass-market producer

Ted Paget moved that the applications be accepted. The motion was seconded and then approved with a show of hands.

2.7 Consensus body

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

Name	Representing	Voting status	Int. cat.
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

Name	Representing	Voting status	Int. cat.
Wendy Holt	Alliance of Motion Picture and Television Producers	P	G
William Conner	Amer. Society of Theatre Consultants	P	DE
R. Duane Wilson	Amer. Society of Theatre Consultants	A	DE
James Niesel	Arup	P	DE
Robert Young	Arup	A	DE
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G
Donald Hoffend_III	Avista Designs, LLC	A	G
Charlie Weiner	Charlie Weiner	P	U
Herb Hart	Columbus McKinnon Corp.	P	MP
Shawn Sack	Columbus McKinnon Corp.	A	MP
Art Zobal	Columbus McKinnon Corp.	A	MP
Edward A. (Ted) Paget	Daktronics Inc.	P	CP
Harvey Sweet	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Dana Bartholomew	Fisher Technical Services, Inc.	P	CP
Scott Fisher	Fisher Technical Services, Inc.	A	CP
Joseph McGeough	Foy Invenenterprises, Inc.	P	CP
Rocky Paulson	Freeman Companies	P	DR
John Ringelman	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
Eric Foster	Hall Associates Flying Effects	A	CP
Ed Garstkiewicz	Harting KGAA	P	G
Howard Forryan	Harting KGAA	A	G
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Roger Lattin	I.A.T.S.E. Local 728	P	U
John (Jack) Miller	I Weiss	P	CP
Rod Haney	IATSE Local 891	P	U
Tray Allen	James Thomas Engineering, Inc.	P	MP
Greg Hareld	Kleege Industries	P	U
William Beautyman	Limelight Productions, Inc.	P	DR
William B. Gorlin	M.G. McLaren, P.C.	P	G
Pat Grenfell	Mainstage Theatrical Supply	P	DR
Vincent J. Cannavale	Motion Laboratories	P	CP
Peter Herrmann	Motion Laboratories	A	CP
David Herrmann	Motion Laboratories	A	CP
Donald Halchak	Mountain Productions Inc.	P	DR
Marty Wesstrom	Mountain Productions Inc.	A	DR
Tim Hansen	Oasis Stage Werks	P	DR
Ron Bonner	PLASA EU	P	G
Orestes Mihaly	Production Resource Group	P	DR
Shawn Nolan	Production Resource Group	A	DR
Rick Montgomery	R&M Materials Handling	P	MP
Troy Post	R&M Materials Handling	A	MP
Benjamin Cohen	Reed Rigging, Inc.	P	DR
Bruce Darden	Rigging Innovators, Inc.	P	CP
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Kimberly Corbett	Schuler Shook	P	DE
Joshua Grossman	Schuler Shook	A	DE
Dan Culhane	SECOA	P	CP
Jerald Kraft	SECOA	A	CP

Name	Representing	Voting status	Int. cat.
Brad Dittmer	Stage Labor of the Ozarks	P	U
Mark Ager	Stage Technologies Group	P	CP
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
Frank Willard	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Stephen G. Surratt	Texas Scenic Company	P	DR
Rick Rosas	Texas Scenic Company	A	DR
Joel A Guerra	Texas Scenic Company	A	DR
Jerry Gorrell	Theatre Safety Programs	P	G
Jeff Wilkowski	Thern, Inc.	P	MP
Adrian Forbes-Black	Total Structures Inc.	P	MP
Elmer Veith	Total Structures, Inc.	A	MP
Theresa Kelley	Total Structures Inc.	A	MP
Kandie Koed	Total Structures Inc.	A	MP
Dan Lisowski	University of Wisconsin - Madison	P	U
Keith Bohn	Vitec Group plc	P	MP
Will Todd	Vitec Group plc	A	MP
Don Dimitroff	Vitec Group plc	A	MP
Mike Garl	Vitec Group plc	A	MP
Pete Happe	Walt Disney Company	P	U
Jeff T. Miller	Walt Disney Company	A	U
Peter V. Svitavsky	Wenger Corp.	P	CP
Rodney F. Kaiser	Wenger Corp.	A	CP
Michael Wells	Xtreme Structures and Fabrication	P	MP
Mark Newlin	Xtreme Structures and Fabrication	A	MP
Joseph Champelli	ZFX Flying Inc.	P	CP
Stu Cox	ZFX Flying Inc.	A	CP
	Total	53	
		11	CP
		3	DE
	Subtotals by interest categories	10	DR
		9	G
		11	U
		9	MP

Thirty-eight votes were present, out of a possible 53, for this meeting.

3 Approval of minutes from the previous meeting

See the draft minutes of the 28 January 2012 meeting, *RIGmin01-2012.pdf*.

Dan Culhane moved that the draft minutes be accepted as written. The motion was seconded and then approved with a show of hands.

4 PLASA declarations

4.1 Anti-trust statement

The following statement was read aloud to the assembly by the Chairman:

"The PLASA Board of Directors, the Technical Standards Council, and the leadership of this working group will reject or nullify any actions that unlawfully restrain trade. Anyone who feels that such an action is being or has been taken is requested to bring that matter to the attention of the chair immediately. Anyone who feels that actions in restraint of trade have been taken and not properly annulled is requested to notify the TSC chair or PLASA chair immediately.

"PLASA legal counsel has informed us that violations of the anti-trust laws can have serious consequences. Individuals engaged in certain unlawful conduct can be found criminally liable. An individual convicted of a criminal violation of the Sherman Act may be fined as much as \$1,000,000 and imprisoned for up to ten years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

The TSM held up some of the easy-to-read pamphlets to show they were available. No restraint of trade issues were reported.

4.2 Call for patents

The following statement was read aloud to the assembly by the Chairman:

"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 or 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."

5 Approval of the agenda

Ted Paget moved that the draft agenda be accepted. The motion was seconded and then approved with a show of hands.

6 Old business

6.1 BSR E1.1-201x, wire rope ladders revision

Karl Ruling reported that the next step is for it to be sent to the PLASA NA ExecComm.

6.2 BSR E1.2-201x, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers

Ruling reported that the revision project had to be announced before the public review could start, and that 30 days had to elapse between the two. That 30 days was almost up.

6.3 ANSI E1.4-2009, Entertainment Technology--Manual Counterweight Rigging Systems

No news or action.

6.4 BSR E1.6-1, Entertainment Technology--Powered Hoist Systems

Report on public review draft resolutions and revised draft standard. See E1-6-1_4thREvwResols_2012-2009.pdf and E1-6-1_2006-2011r5.pdf. The task group would like to see this draft standard be considered for acceptance as an ANS.

Harvey Sweet moved that the draft comment resolutions be accepted. The motion was seconded and then approved with a unanimous show of hands, which was a supermajority.

Harvey Sweet moved that we accept the offered draft of E1.6-1 as an American National Standard. The motion was seconded. There was a unanimous show of hands in support, but the motion must be decided by letter ballot.

Bill Sapsis thanked Harvey Sweet and the E1.6-1 task group for their diligent and hard work in bringing this standard to the RWG. There was a round of applause from the RWG membership.

6.5 BSR E1.6-2, Entertainment Technology--Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry

Karl Ruling reported that it is in public review until the end of April 23. So far there had been no comments offered.

6.6 BSR E1.6-3, Safe Use of Electric Chain Hoists in the Entertainment Industry

Karl Ruling reported that the next step is for it to be sent to the PLASA NA ExecComm.

6.7 BSR E1.6-4, Control of Electric Chain Hoists in the Entertainment Industry

Report on public review. The review closed at the end of the day on March 26. Ruling said that he'd posted a Zip file with all the comments in raw form on the PLASA TSP meeting website and notified Rigging Working Group members of it on March 27.

Knut Skjonberg said the task group has begun addressing the comments.

6.8 BSR E1.8-201x, Entertainment Technology--Loudspeaker Enclosures Intended for Overhead Suspension--Classification, Manufacture and Structural Testing

Public review progress report. Ruling reported that it is in public review through the end of April. There have been no comments so far.

6.9 ANSI E1.15-2006 (R2011), Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies

No news or action.

6.10 BSR E1.21-201x, Temporary Ground-Supported Overhead Structures Used To Cover Stage Areas and Support Equipment in the Production of Outdoor Entertainment Events

A set of draft comment resolutions had been sent to the working group members on the morning of this meeting day. The revised draft standard was still a work in progress during the meeting.

There was a discussion of the best way to move forward with this project, short of holding action on the documents until the July meeting.

Eddie Kramer moved that we accept the comment resolutions and the revised draft standard (forth-coming) as our response to the comments and to offer the revised draft standard for public review. The question will be decided by letter ballot.

6.11 ANSI E1.22 - 2009, Entertainment Technology - Fire Safety Curtain Systems

Dan Culhane suggested that we should review the standard to see if revisions are needed. Bill Sapsis appointed Dan Culhane as the task group leader for this review project.

Culhane also suggested that we could offer proposals to change the fire safety curtain section of NFPA 80. There was a discussion of the NFPA schedule.

6.12 BSR E1.39 - 20xx, Entertainment Technology --Selection and Use of Personal Fall Arrest Systems on Portable Structures Used in the Entertainment Industry

Karl Ruling reported that it is in public review through April 23. As of this meeting date, two people had commented.

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

William Gorlin read aloud the draft scope statement:

"This document establishes a minimum level of design and performance parameters for the design, manufacturing, use and maintenance of performer flying systems used in the production of entertainment events. The purpose of this guidance is to ensure the adequate strength, reliability and safety of these systems to ensure safety of the performer under all circumstances.

"Flying systems within the scope of this standard include devices and systems supporting people or components to which people are attached, suspended above floor level that gives the impression of weightlessness, floating, flying or falling. Situations covered by this standard pertain to any and all locations of the flight path, including over the stage or audience.

"This document covers the machinery, mechanisms and mechanical attachments used to support flying persons or ride-on flown props, but does not extend to any connection that relies on the strength or ability of the flown performer.

"This document does not pertain to fall protection. Systems for flying the general public or for people engaged in non-entertainment flying effects are not included in the scope of this document.

He reported that the task group had had two productive sessions over the past 24 hours, and a good amount of text has been written. Between now and the next RWG meeting in July in NYC, individual members of the task group will continue to write text as they can.

When the task group next meets in NYC, the goal will be to work through the rest of the text that has been written together as a group. After the NYC meeting, a draft document will be offered to the working group to show what has been accomplished. Some sections will be only partially done, but it should give a good indication of where we are heading. The longer term goal is to be able to present a developed draft document to the RWG by USITT 2013.

6.14 BSR E1.44 – 201x, Common Show File Exchange Format for Entertainment Industry Automation Control Systems -- Stage Machinery

Michael Lichter reported that the draft document is about 40+ pages, but it needs refinement. The draft standard needs a process to register manufacturer-specific extensions to the standard, but PLASA already has a procedure in place for doing this with CPWG standards, so nothing need be invented to implement this. The task group hopes to have something available for consideration for public review at the LDI meeting.

6.15 Rigging Glossary

See *Chris Kaiser's DEFINITIONS_USED_IN_RWG_PUBLICATIONS.pdf*.

There was discussion of Kaiser's list of definitions. The consensus was that the list should be further refined to make recommendations of the preferred definitions. A task group of Chris Kaiser, Rocky Paulson, Pat Grenfell, and Joe Champelli was appointed, with Chris Kaiser the leader.

7 New business

None.

8 Other business and announcements

None.

9 Schedule for future meetings

Bill Sapsis announced that the next working group meeting is scheduled for Thursday 19 July 2012, at the Hilton New York in New York City, from 1:00 to 6:00 in the afternoon. This will be a few days before the North American Theatre Engineering and Architecture Conference, to be held July 22 and 23 in New York.

10 Adjournment

Ted Paget moved that the meeting adjourn. The motion was seconded and then approved by acclamation. Bill Sapsis declared the meeting adjourned at 20:23.

Membership and Contact Information as of 16 April 2012

Name	Ccompany	Representation	Voting status	Int. cat.
Mark Ager	Stage Technologies	Stage Technologies Group	P	CP
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP
Brent Armstong	Brent Armstong	Brent Armstong	O	U
William Ian Auld	Auld Entertainment	Auld Entertainment	O	U
Warren A. 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
Dana Bartholomew	Fisher Technical Services, Inc.	Fisher Technical Services, Inc.	P	CP
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
Maria Bement	MGM Grand	MGM Grand	O	U
Roy Bickel	Roy Bickel	Roy Bickel	O	G
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Keith Bohn	Tomcat USA, Inc.	Vitec Group plc	P	MP
David Bond	Show Restraint Ltd.	Show Restraint Ltd.	O	U
Ron Bonner	PLASA Technical Resources Office	PLASA EU	P	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 M. Campbell	Geiger Engineers	Geiger Engineers	O	G
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	O	DR

Name	Ccompany	Representation	Voting status	Int. cat.
Joseph Champelli	ZFX Flying Inc.	ZFX Flying Inc.	P	CP
Daniel J. Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	O	G
Benjamin Cohen	Reed Rigging, Inc.	Reed Rigging, Inc.	P	DR
Ian Coles	Total Structures, Inc.	Total Structures, Inc.	O	MP
Gregory C. Collis	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	G
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	DE
Kimberly Corbett	Schuler Shook	Schuler Shook	P	DE
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 W. A. Davidson	Risk International & Associates, Inc.	Risk International & Associates, Inc.	O	U
Robert Dean	ZFX Flying Inc.	ZFX Flying Inc.	O	DR
François Deffarges	Nexo	Nexo	O	MP
Cristina Delboni	Feeling Structures	Feeling Structures	O	MP
Jim Digby	The Collaborative Endeavor Group	Linkin Park Touring/The Collective	O	U
Don Dimitroff	Tomcat USA, Inc.	Vitec Group plc	A	MP
Brad Dittmer	Stage Labor of the Ozarks	Stage Labor of the Ozarks	P	U
Noga Eilon-Bahar	Eilon Engineering Industrial Weighing Systems	Eilon Engineering Industrial Weighing Systems	O	MP
James B. Evans	Mountain Productions Inc.	Mountain Productions Inc.	O	DR
Scott Fisher	Fisher Technical Services, Inc.	Fisher Technical Services, Inc.	A	CP
Adrian Forbes-Black	Total Structures Inc.	Total Structures Inc.	P	MP
Howard Forryan	Harting Ltd.	Harting KGAA	A	G
Eric Foster	Hall Associates Flying Effects	Hall Associates Flying Effects	A	CP
Tim Franklin	Theta-Consulting	Theta-Consulting	O	G
Luca Galante	Alfa System Sas	Alfa System Sas	O	CP
Mike Garl	Tomcat USA, Inc.	Vitec Group plc	A	MP

Name	Ccompany	Representation	Voting status	Int. cat.
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G
Ethan William Gilson	ALPS	Advanced Lighting and Production Services	P	U
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	Jay O. Glerum & Associates, Inc.	O	U
Rand Goddard	W.E. Palmer Co.	W.E. Palmer Co.	O	CP
Reuben Goldberg	Technic Services	Technic Services	O	U
William B. Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Thomas M. Granucci	Associated Students, Cox Arena	San Diego State University	O	U
Pat Grenfell	Mainstage Theatrical Supply, Inc.	Mainstage Theatrical Supply	P	DR
Joshua Grossman	Schuler Shook	Schuler Shook	A	DE
Joel A Guerra	Texas Scenic Company	Texas Scenic Company	A	DR
Donald Halchak	Mountain Productions Inc.	Mountain Productions Inc.	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	Walt Disney Imagineering	Walt Disney Company	P	U
Sean Harding	High Output, Inc.	High Output, Inc.	O	G
Greg Hareld	Kleege Industries	Kleege Industries	P	U
Dean Hart	Stage Rigging, Inc.	Freeman Companies	O	U
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Ben Hayes	Freedom Flying	Freedom Flying	O	G
Marc Hendriks	Prolyte	Prolyte	O	MP
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
Wendy Holt	AMPTP/CSATF	Alliance of Motion Picture and Television Producers	P	G

Name	Ccompany	Representation	Voting status	Int. cat.
Daniel Lynn Houser	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	O	U
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	A	G
Wes Jenkins	Down Stage Right Industries	Down Stage Right Industries	O	CP
Joseph Jeremy	Niscon Inc.	Niscon Inc.	O	CP
Peter Johns	Total Structures, Inc.	Total Structures, Inc.	O	MP
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
Robert A. Grenier_Jr.	Ocean State Rigging Systems Inc.	Ocean State Rigging Systems Inc.	O	DR
Donald A. Hoffend_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
Rodney F. Kaiser	J.R. Clancy Inc.	Wenger Corp.	A	CP
Christine L. 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
Nevin Kleege	Kleege Industries	Kleege Industries	O	U
Kandie Koed	Total Structures Inc.	Total Structures Inc.	A	MP
Jerald Kraft	SECOA	SECOA	A	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	A	G
Ken Lager	Pook, Diemont & Ohl, Inc.	Pook, Diemont & Ohl, Inc.	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
Eugene Leitermann	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	O	G
Jon Lenard	Applied Electronics	Applied Electronics	O	MP
John Van Lennep	Theatrix Inc.	Theatrix Inc.	O	DR

Name	Ccompany	Representation	Voting status	Int. cat.
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 J. Lopez	Automatic Devices Co.	Automatic Devices Co.	O	MP
Darren Lucier	North Guard Fall protection Inc.	North Guard Fall protection Inc.	O	U
Sam Lunetta	Michael Andrews	Michael Andrews	O	DR
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	O	U
Gary Mardling	Kish Rigging	Kish Rigging	O	DR
Chuck McClelland	Jeamar Winches Inc.	Jeamar Winches Inc.	O	MP
Joseph McGeough	Flying by Foy	Foy Invenerprises, Inc.	P	CP
Richard C. Mecke	Texas Scenic Company	Texas Scenic Company	O	DR
Orestes Mihaly	Production Resource Group	Production Resource Group	P	DR
Hank Miller	W.E. Palmer Co.	W.E. Palmer Co.	O	CP
John (Jack) Miller	I Weiss	I Weiss	P	CP
Jeff T. Miller	Worldwide Standards and Auditing	Walt Disney Company	A	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
Martin Moore	Martin Moore	Martin Moore	O	G
John "Andrew" Munro	animaenagerie	animaenagerie	O	U
Bob Murphy	Occams Razor Technical Services	Occams Razor Technical Services	O	G
Steve Nelson	3dx Scenic and 3dx FlameCoat	Educational Theatre Association	O	U
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP
Mark Newlin	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	A	MP

Name	Ccompany	Representation	Voting status	Int. cat.
Rikki Newman	Rikki Newman	Rikki Newman	O	U
James Niesel	Arup	Arup	P	DE
Richard J. 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
Edward A. (Ted) Paget	Daktronics Automated Rigging Solutions	Daktronics Inc.	P	CP
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	P	DR
G. Anthony Phillips	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	U
Troy Post	R&M Materials Handling	R&M Materials Handling	A	MP
Michael Powers	Central Lighting & Equipment, Inc.	Central Lighting & Equipment, Inc.	O	DR
Kurt Pragman	Pragman Associates, LLC	Pragman Associates, LLC	O	G
Woody Pyeatt	A V Pro, Inc.	A V Pro, Inc.	P	DR
Michael Reed	Reed Rigging, Inc.	Reed Rigging, Inc.	O	DR
Mark Riddlesperger	LA ProPoint, Inc.	LA ProPoint, Inc.	O	CP
John Ringelman	Stage Rigging, Inc.	Freeman Companies	A	DR
Timo Risku	Akumek	Akumek	O	DE
Jean-Philippe Robitaille	Show Distribution Group, Inc.	Show Distribution Group, Inc.	O	DR
Rick Rosas	Texas Scenic Company	Texas Scenic Company	A	DR
Shawn Sack	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	Scheu Consulting Services, Inc.	O	G
Peter "Punch" Christian Schmidtke	Hollywood Lighting Services, Inc.	Hollywood Lighting, Inc.	O	DR
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP
Knut Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP

Name	Ccompany	Representation	Voting status	Int. cat.
William Scott Sloan	William Scott Sloan	William Scott Sloan	O	U
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	O	CP
Michael L. Savage, 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 G. Surratt	Texas Scenic Company	Texas Scenic Company	P	DR
Andy Sutton	AFX UK Ltd.	AFX UK Ltd.	O	U
Peter V. Svitavsky	J.R. Clancy Inc.	Wenger Corp.	P	CP
Harvey Sweet	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Katherine Tharp	LA ProPoint, Inc.	LA ProPoint, Inc.	O	CP
Will Todd	Tomcat USA, Inc.	Vitec Group plc	A	MP
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	O	U
Elmer Veith	Total Structures - Eastern US Sales Office	Total Structures, Inc.	A	MP
Steve Walker	Steve A. Walker & Associates	Steve A. Walker & Associates	P	G
Bill Waters	Conductix-Wampfler	Conductix-Wampfler	O	MP
Charlie Weiner	Charlie Weiner	Charlie Weiner	P	U
Michael Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP
Marty Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	A	DR
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	O	U
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP
Frank Willard	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	A	DE
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Robert Young	Arup	Arup	A	DE
Art Zobal	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP

Voting status

- P principal voting member
- A alternate voting member
- I individual voting member
- O observer, non-voting

Interest categories

- CP custom-market producer
- DE designer
- DR dealer or rental company
- G general interest
- MP mass-market producer
- U user