

**Minutes**  
**Rigging Working Group**  
Saturday, 28 January 2012  
Marriott Solana  
Westlake, TX

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

**Recording secretary:** Karl G. Ruling; PLASA

**Members attending:**

Mark Ager; Stage Technologies (Stage Technologies Group); P; CP  
Tray Allen; James Thomas Engineering, Inc.; P; MP  
Dana Bartholomew; Fisher Technical Services, Inc.; P; CP  
William Beautyman; Limelight Productions, Inc.; P; DR  
Ron Bonner; PLASA Technical Resources Office (PLASA EU); P; G  
Vincent J. Cannavale; Motion Laboratories; P; CP  
Joseph Champelli; ZFX Flying Inc.; P; CP  
Kimberly Corbett; Schuler Shook; P; DE  
Bruce Darden; Rigging Innovators, Inc.; P; CP  
Brad Dittmer; Stage Labor of the Ozarks; P; U  
Mike Garl; Tomcat USA, Inc. (Vitec Group plc); A; MP  
Ed Garstkiewicz; Harting Inc., North America (Harting KGAA); P; G  
Ethan William Gilson; ALPS (Advanced Lighting and Production Services); P; U  
William B. Gorlin; McLaren Engineering Group (M.G. McLaren, P.C.); P; G  
Jerry Gorrell; Theatre Safety Programs; P; G  
Pat Grenfell; Mainstage Theatrical Supply, Inc.; P; DR  
Rod Haney; IATSE Local 891; P; U  
Tim Hansen; Oasis Stage Werks; P; DR  
Herb Hart; Columbus McKinnon Corp.; P; MP  
Wendy Holt; AMPTP/CSATF (Alliance of Motion Picture and Television Producers); P; G  
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; 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  
Michael Lichter; Electronic Theatre Controls, Inc.; A; MP  
Dan Lisowski; Dept. Of Theatre and Drama (University of Wisconsin - Madison); P; U  
Joseph McGeough; Flying by Foy; Foy Inventerprises, Inc.; P; CP  
Orestes Mihaly; Production Resource Group; P; DR  
John (Jack) Miller; I Weiss; P; CP  
Rick Montgomery; R&M Materials Handling; P; MP  
Martin Moore; O; G  
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  
Edward A. (Ted) Paget; Daktronics Automated Rigging Solutions (Daktronics Inc.); P; CP  
Miriam Paschetto; Geiger Engineers; P; G  
Rocky Paulson; Stage Rigging, Inc. (Freeman Companies); P; DR  
John Ringelman; Stage Rigging, Inc. (Freeman Companies); A; DR  
Peter V. Svitavsky; J.R. Clancy Inc. (Wenger Corp.); P; CP  
Harvey Sweet; Electronic Theatre Controls, Inc.; P; MP  
Will Todd; Tomcat USA, Inc. (Vitec Group plc); A; MP  
Steve Walker; Steve A. Walker & Associates; P; G  
R. Duane Wilson; George C. Izenour Associates, representing ASTC; A; DE  
Art Zobal; Columbus McKinnon Corp.; A; MP

**Visitor:** Sanford Gilzow; Shur-Rig LLC

## 1 Opening remarks

Sapsis called the meeting to order at 13:01. He thanked all for devoting their time and energy to the projects of the Rigging Working Group.

## 2 Attendance and membership

### 2.1 Introduction of those present

Those present introduced themselves.

### 2.2 Circulation of attendance sign-in sheet

A bright yellow sign-in sheet was circulated.

### 2.3 Call for quorum

Sapsis asked for a show of hands of voting members. He counted the up-raised hands and announced that we have more than enough voters present to be able to pass a motion requiring a supermajority.

### 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 had missed the last two consecutive meetings, and would be moved to observer status if they missed this one:

Tim Hansen and Spencer Brown of Oasis Stage Werks

Tim Hansen was present, so there was no loss of voting status. He said that Spencer Brown was no longer with the company, so he needs to be removed as a representative.

### 2.6 Processing of new membership requests

Applications logged:

Pat Grenfell, Mainstage Theatrical Supply, Principal, DR

Jeff T. Miller; Walt Disney Company; Alternate; User

David Bond; Show Restraint Ltd.; Observer; User

Mike Garl; Tomcat USA, Inc. (Vitec Group plc); Alternate; Mass-market producer

Jim Digby; The Collective Endeavor Group, representing Linkin Park Touring/The Collective;

Observer; User

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, 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
Wendy Holt	Alliance of Motion Picture and Television Producers	P	G

<b>Name</b>	<b>Representing</b>	<b>Voting status</b>	<b>Int. cat.</b>
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 Invenerprises, 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

<b>Name</b>	<b>Representing</b>	<b>Voting status</b>	<b>Int. cat.</b>
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
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
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
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

Name	Representing	Voting status	Int. cat.
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
	<b>Total votes possible</b>	<b>52</b>	
	Votes by interest category	11	CP
		3	DE
		9	DR
		9	G
		9	MP
		11	U

### 3 Approval of minutes from the previous meeting

See the draft minutes of the October 2011 meeting, *RIGmin10-2011.pdf*.

Roger Lattin moved that the draft minutes be accepted as written. The motion was seconded and then approved with a show of hands. There was one abstention.

### 4 PLASA declarations

#### 4.1 Anti-trust statement

Bill Sapsis read the following statement aloud to the assembly:

"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."

Some of the easy-to-read pamphlets were waved aloft by the Technical Standards Manager to show that they were available. No restraint of trade issues were reported.

#### 4.2 Call for patents

Bill Sapsis read the following statement aloud to the assembly:

"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."

Nothing was reported.

## **5 Approval of the agenda**

Brad Dittmer moved that the agenda be approved. 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**

*Report on acceptance vote. See RWG\_E1-1AcceptBallotResults-Rig\_2011-2034.pdf.*

Karl Ruling reported that the motion had passed in the working group and that the TSC will vote on it on Tuesday.

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

*Report on progress with drafting resolutions to public review comments, revised standard. Consideration of next step. This was a reaffirmation project; are we now revising it? Mike Garl et alia. See E1-2CmmntRsltns2011-2030r1.pdf and E1-2-201x\_2011-2031r1.pdf.*

Mike Garl moved that we announce this project as one to revise the E1.2 standard rather than reaffirm it. The motion was seconded. There was discussion. The motion was approved with a show of hands.

Mike Garl moved that we accept the draft resolutions to the public review comments. The motion was seconded. The motion was approved with a show of hands. There were three abstentions, but no opposition.

Mike Garl moved that the revised draft E1.2 standard be offered for public review. The motion was seconded. The motion was approved with a show of hands. There was one abstention, but no opposition.

Mike Garl thanked Bill Conner and Miriam Paschetto for their help on the revision.

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

*It's published. Any news or action needed?*

No news or action.

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

*Report on public review. See comment summary E1-6-1\_4thCommntSmmry2012-2003.pdf.*

Harvey Sweet reported that the task group had met and worked on addressing the comments. They need to further review what they have done. He will send the finished draft resolutions and draft standard to Karl Ruling in a few weeks for distribution and action at the USITT meeting.

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

*Report on public review, draft resolutions and revised document, consideration of next step. See E1\_6-2\_8thRevwDraftResols.pdf and E1\_6-2\_2005-2040r9.pdf.*

John Ringelman reported that the task group had created a set of comment resolutions and a revised document. The resolutions make substantive changes to the draft standard.

John Ringelman moved that the resolutions be accepted. The motion was seconded and then approved with a show of hands.

John Ringelman moved that the revised draft standard be offered for public review. The motion was seconded and then approved with a show of hands.

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

*Report on acceptance vote. See RWG\_E1-6-3AcceptBallotResults\_Rig\_2011-2037.pdf.*

Karl Ruling reported that the motion had passed in the working group and that the TSC will vote on it on Tuesday.

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

*Report on public review.*

Ruling reported that it is in public review until March 27. The last day to comment is March 26.

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

*Public review vote progress report. As of Friday the 13<sup>th</sup>, the motion had failed so that a new draft standard could be considered. See E1-8-1997-2021r15.pdf, a new draft.*

There was discussion of the r15 document, which was drafted to address negative ballot concerns. Further changes were made to address further concerns, and an r16 version was created.

Richard Nix moved that we accept the revisions the draft standard. The motion was seconded and then approved with a unanimous show of hands.

Richard Nix moved that the revised draft standard be offered for public review. The motion was seconded and then approved with a unanimous show of hands.

**6.9 ANSI E1.15-2006 (R201x), Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies**

*The reaffirmation was approved by ANSI on December 7. It needs to be published. Any other action needed?*

Ruling announced that it is published. There was no other 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**

*Comment resolution progress report.*

Mike Garl reported that the task group has met and will working to move forward. There was a discussion of what is being done to monitor regulation of portable structures and to promote the existing standard.

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

*It's published. Any news or action needed?*

Harvey Sweet commented that when it was passed there was much angst about it. Should there be a task group formed to consider how it has been accepted in the field and to recommend possible future revisions. Bill Sapsis said that if anyone is interested in being on such a task group to let him know. He said that the existing standard has been very helpful for him in the real world.

Jerry Gorrell said that NFPA 80 has finished a revision cycle and will be beginning the start of another one in 2013. We could prepare comments.

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

*Report on public review comment resolutions and consideration of next step. See BSR\_E1-39-111216.pdf and BSR\_1-39-201xCommentResolution-110411.pdf.*

Rocky Paulson moved that the comment resolutions be accepted. The motion was seconded. There was a discussion of some comments dealing with the difference between standards and regulations. The motion was approved with a show of hands. There were three abstentions.

Rocky Paulson moved that the revised draft standard be offered for another public review. The motion was seconded. The motion was approved with a show of hands. There was one abstention.

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

William Gorlin reported that the task group met last night and this morning. They are looking at the existing standards that bear on this matter, and what to borrow or adapt. This morning they did an outline of the document, and three units of text were worked on. They plan to have a development schedule for Bill Sapsis soon.

The scope now includes performers in flying harnesses and attached to props, and also those not attached, such as silk acts.

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

Michael Lichter reported that the kickoff meeting was at LDI. They defined a scope and structure for the document, and now have a rough draft of 31 pages. Perhaps they will have a document ready for public review by the middle of this year, but that is optimistic, Michael Lichter said.

## **7 New business**

The idea of doing a rigging definitions glossary was discussed. Chris Kaiser volunteered to compile all the definitions used in our rigging standards.

## **8 Other business and announcements**

Roger Lattin offered a tour of Hollywood studios' power facilities to all who are interested. However, he would like to know who is interested so he can organize one or two discrete tours.

## **9 Schedule for future meetings**

Sapsis announced that the next meeting is scheduled for 19:00 to 23:00, Friday 30 March 2012, at the Westin Long Beach in Long Beach, CA.

## **10 Adjournment**

Wendy Holt moved that the meeting adjourn. The motion was seconded. The motion was approved by acclamation. Sapsis declared the meeting adjourned at 15:39.

**Working Group Membership and Contact Information as of 8 March 2012**

Name	Company	Representing	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	Company	Representing	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
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
Philip Fleming	PSAV Presentation Services	PSAV Presentation Services	O	DR
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
Mike Garl	Tomcat USA, Inc.	Vitec Group plc	A	MP
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G

Name	Company	Representing	Voting status	Int. cat.
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	IATSE Local 891	IATSE 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	Company	Representing	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
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
Mylan Lester	Creation Logics Ltd.	Creation Logics Ltd.	O	U

Name	Company	Representing	Voting status	Int. cat.
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
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
Rikki Newman	Rikki Newman	Rikki Newman	O	U
James Niesel	Arup	Arup	P	DE

Name	Company	Representing	Voting status	Int. cat.
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
Howard R. Ott	D.E.O. Associates, Inc.	D.E.O. Associates, Inc.	O	G
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
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
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	O	CP

Name	Company	Representing	Voting status	Int. cat.
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