

**Minutes**  
**Rigging Working Group**  
Thursday, 19 March 2015  
Hilton Netherland Plaza  
Cincinnati, OH  
& WebEx

**Presiding chairperson:**

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

**Recording secretaries:**

Erin Grabe; PLASA NA; exf; G

Karl G. Ruling; PLASA NA; exf; G

**Members in attendance:**

Jesse Adams; Rose Brand; P; DR

Matthew Antonucci; Contract Services Administration Trust Fund; P; U

William Beautyman; Limelight Productions, Inc.; P; DR

Keith Bohn; I; G

William Bradburn; Aerial Arts, Inc.; P; U

David Carmack; Columbus McKinnon Corp.; A; MP

Joseph Champelli; Entertainment Project Services, LLC; P; DE

Dan Culhane; SECOA; P; CP

Bruce Darden; Rigging Innovators, Inc.; P; CP

Robert Dean; ZFX Flying 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.; O; DR

Patrick Finn; J.R. Clancy Inc.; Wenger Corp.; A; CP

Tim Franklin; Theta-Consulting; O; G

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

Don Halchak; Total Structures Inc.; A; MP

Rod Haney; I.A.T.S.E. Local 891; P; U

Tim Hansen; Oasis Stage Werks; P; DR

Pete Happe; Walt Disney Imagineering; Walt Disney Company; P; U

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; Chicago Spotlight, Inc.; P; U

Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR

Jerald Kraft; JTH Lighting Alliance; P; CP

Ken P. Lager; LaFace & McGovern Associates; O; DR

Roger Lattin; I.A.T.S.E. Local 728; P; U

Jon Lenard; Applied Electronics; A; MP

Michael Lichter; Electronic Theatre Controls, Inc. (DE); Electronic Theatre Controls, Inc.; A; MP

Dan Lisowski; Dept. Of Theatre and Drama; University of Wisconsin - Madison; P; U

Orestes Mihaly; Production Resource Group; P; DR

Jeff T. Miller; Worldwide Standards and Auditing; Walt Disney Company; A; U

John Miller; University of North Carolina School of the Arts; O; U

Rick Montgomery; R&M Materials Handling; P; MP

John P. Moore; Hall Associates Flying Effects; A; CP

Bartholomew J. Mueller; Recreation Engineering Inc.; O; DE  
Reid Neslage; H & H Specialties Inc.; P; MP  
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  
Jennifer O'Leary; Columbus McKinnon Corp.; A; MP  
Kimberly Corbett Oates; Schuler Shook; P; DE  
Gregory Orth; WNP Services, Inc.; P; DR  
Edward A. (Ted) Paget; Electronic Theatre Controls, Inc.; A; MP  
Miriam Paschetto; Geiger Engineers; P; G  
Galen Price; Blue Man Group; P; U  
Woody Pyeatt; A V Pro, Inc.; P; DR  
Gregory Quinkert; Motion Laboratories; A; CP  
John Ringelman; Stage Rigging, Inc.; Freeman Companies; P; DR  
Peter A. Scheu; Scheu Consulting Services, Inc.; P; DE  
Chris Schmidt; Stage Rigging, Inc.; Freeman Companies; A; DR  
Jason Schumacher; ZFX Flying Inc.; A; CP  
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  
Stephen Vanciel; O; U  
Steve Walker; Steve A. Walker & Associates; P; G  
Michael Wells; Xtreme Structures and Fabrication; P; MP  
Marty Wesstrom; Mountain Productions Inc.; P; DR  
R. Duane Wilson; George C. Izenour Associates; Amer. Society of Theatre Consultants; P; DE

## **1 Opening remarks**

The meeting was called to order at 19:04 by Bill Sapsis. He began by thanking everyone for their effort, money, time in advancing this work. He added that it does not go unnoticed and that it is appreciated.

On that note, Bill Sapsis awarded the Above & Beyond Award to Richard Nix for all of his work as a member of the Rigging Working Group and Technical Standards Program. Bill Sapsis noted there are a large number of committees and task groups on which Richard Nix participates, and that he has made a large contribution toward getting documents done. The working group responded with a round of applause.

## **2 Attendance and membership**

### **2.1 Introductions of those present and taking attendance**

A bright orange sign-in sheet was circulated around the table and room while self-introductions took place.

### **2.3 Call for quorum**

After counting the raised hands of voters, Bill Sapsis announced that more than a supermajority was present.

### **2.4 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.

### **2.5 Changes of membership status due to lack of attendance**

The following voters had missed the last two meetings and were moved to Observer status due to lack of attendance at this meeting:

Joseph McGeough; Foy Invenenterprises, Inc.; P; CP  
 Jeremy Hochman; Full Throttle Films/ VER; P; DR  
 Scott M. Blair; Full Throttle Films/ VER; A; DR  
 Ed Garstkiewicz; Harting KGAA; P; G  
 Howard Forryan; Harting KGAA; A; G  
 Steve (BOZ) Bodzioch; LMG Inc.; P; DR  
 Douglas M. Eldredge; LMG Inc.; A; DR  
 Marcus Lopez Jr.; LMG Inc.; A; DR  
 Todd Spencer; PSAV Presentation Services; P; U  
 Carlos Ortega; PSAV Presentation Services; A; U

**2.6 Processing of new membership and change in status requests:**

As of 9 March 2015, the following applications have been received and logged:

Jason Schumacher; ZFX Flying Inc.; A; CP  
 Harold "Ike" Shippers; Syracuse Scenery & Stage Lighting Co., Inc.; A; DR  
 Don Earl; Earl Girls Inc.; O; DR  
 Peter Scheu; Scheu Consulting Services, Inc.; Requested O to P; DE

Ted Jones moved that the applications and requests be approved. The motion was seconded and approved by a show of hands with no opposition or abstentions.

**2.7 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
Shawn Sack	A.C.T. Lighting	P	DR
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
Robert Young	Arup	P	DE
Michael Parrella	Arup	A	DE
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G
Donald Hoffend_III	Avista Designs, LLC	A	G
Galen Price	Blue Man Group	P	U
Ted Jones	Chicago Spotlight, Inc.	P	U
Herb Hart	Columbus McKinnon Corp.	P	MP
David Carmack	Columbus McKinnon Corp.	A	MP
Jennifer O'Leary	Columbus McKinnon Corp.	A	MP
Ken Tilson	Columbus McKinnon Corp.	A	MP
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Steven Ricks	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Nils Becker	Electronic Theatre Controls, Inc.	A	MP

Name	Representing	Voting status	Interest category
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
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
Steven C. Shaw	Levitating Productions, Inc.	P	MP
William Beautyman	Limelight Productions, Inc.	P	DR
William B. Gorlin	M.G. McLaren, P.C.	P	G
Mike Adamovich	M.G. McLaren, P.C.	A	G
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
Bruce Darden	Rigging Innovators, Inc.	P	CP
Jesse Adams	Rose Brand	P	DR

<b>Name</b>	<b>Representing</b>	<b>Voting status</b>	<b>Interest category</b>
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
Dana Bartholomew	Tait Towers Manufacturing LLC	P	CP
Mark Ager	Tait Towers Manufacturing LLC	A	CP
Patrick Leigh Bettington	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
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
Adrian Forbes-Black	Total Structures Inc.	P	MP
Elmer Veith	Total Structures, Inc.	A	MP
Theresa Kelley	Total Structures Inc.	A	MP
Don Halchak	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
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

Name	Representing	Voting status	Interest category
Peter V. Svitavsky	Wenger Corp.	P	CP
Patrick Finn	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
<b>Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter</b>			
<b>Votes by Interest Category:</b>			
Custom-market producer		CP	9
Designer		DE	7
Dealer or rental company		DR	12
General interest		G	7
Mass-market producer		MP	12
User		U	14
<b>Total votes possible:</b>			<b>61</b>

### 3 Approval of minutes from the previous meeting

See the draft minutes of the January meeting, *RIGmin01-2015.pdf*.

Pat Grenfell moved that the minutes of the January meeting be approved as drafted. The motion was seconded and approved by a show of hands with no opposition.

### 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 revealed.

#### 4.2 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 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 revealed.

## **5 Approval of the agenda**

Ted Paget moved that the agenda be approved as drafted. The motion was seconded and approved by a show of hands.

## **6 New business**

### **6.1 Other new business**

### **7 Old business**

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

No news or action at this time.

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

No news or action at this time.

#### **7.3 BSR E1.4-1 - 201x, Entertainment Technology--Manual Counterweight Rigging Systems**

*The draft standard was in public review through the end of the day 2 March 2015.*

Comments were received and need to be resolved. See *Summary\_E1-4-1\_FrstRvwCmmnts.pdf*.

Richard Nix reported that the task group met over the last few weeks and resolved about 177 comments. He added that the group plans to review them again and to make sure that the document implements the resolutions.

Richard Nix motioned that a letter ballot be issued upon completion of the draft comment resolutions and revised draft standard for approval by the working group. The motion was seconded. Kimberly Corbett Oates spoke against this motion, arguing that face-to-face time with the resolutions and draft standard would be more beneficial to the process and the group. She would like the resolutions and revised standard to be submitted for consideration at the July meeting. Ted Jones agreed with this request. There was some discussion and a vote was called. The motion failed by a show of hands against the letter ballot approval.

Richard Nix said that the task group will send the comment resolutions and revised draft to the working group when they are available.

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

Ethan Gilson reported that the task group hopes to have a document to this group for the July meeting.

#### **7.5 BSR E1.4-3 - 201x - Hand winch rigging**

Richard Nix reported that the task group has a draft standard and will submit it to the working group for review within the next few weeks for consideration and discussion at the July meeting.

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

No news or action at this time.

**7.7 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)

No news or action at this time.

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

No news or action at this time.

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

No news or action at this time.

**7.10 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 or action at this time.

**7.11 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 or action at this time.

**7.12 ANSI E1.21 - 2013, Temporary Ground-Supported Overhead Structures Used To Cover Stage Areas and Support Equipment in the Production of Outdoor Entertainment Events** (revision, reaffirmation, or withdrawal by 2018)

No news or action at this time.

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

Dan Culhane reported that the task group has met several times, and has come to a consensus with Steve Walker. A new copy of the resolutions and draft standard will be available for consideration at the July meeting. Dan Culhane noted that the task group hopes to offer the standard for public review again in July.

**7.14 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 or action at this time.

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

Bill Gorlin reported that progress was made by the task group on resolving public review comments. He asked for a discussion of the draft standard's scope, whether it should include acrobatic circus acts or not. There was a lively discussion, with the consensus being that the mechanical equipment used in theatrical flying acts and acrobatic circus acts is fundamentally the same, but that our standard needs to make a clear demarcation between the machinery covered and any accessories that are not covered. There was consensus that acrobatics and aerial acts themselves be excluded from this standard, but there was no consensus on how to draw that line.

**7.16 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 or action at this time.

## 7.17 Rigging Glossary

Shawn Nolan and Chris Kaiser agreed to work on this and have something for the working group for the July meeting. There was a discussion of the need for a glossary for the entire industry, not simply for this working group.

Michael Lichter added that the CEN TC 433 committee is currently working on their list of terms.

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

Christine Kaiser and Pete Svitavsky have a set of comment resolutions and a revised draft for consideration, see *E1-47\_Rig2014-2003r3.pdf* and *BSR\_E1-47\_CommentResols.pdf*. They would also like to have a discussion of whether the working group still feels that this is a guidance document rather than a mandatory document, see *CoverLetterToE1-47PublicReviewCommentsDraft.pdf*.

Chris Kaiser addressed the number of comments from this working group that suggested that this document needs to be a normative document rather than a guideline. She noted that the project was approved as a guideline, not as a project to draft a normative document, and asked the working group if that is still the intent.

There was discussion about the use of shall versus should in the document. By a show of hands called by Bill Sapsis, the use of "should" in the document wins, indicating that the group wishes the document remain non-normative.

There was further discussion about whether the document should include the qualifications of the inspector.

Chris Kaiser moved to accept the comment resolutions as drafted. The motion was seconded. By a show of hands, the motion carried with a supermajority voting in favor.

Chris Kaiser then moved that the revised document be offered for public review. That motion was seconded and approved by supermajority show of hands in favor.

## 7.19 BSR E1.50—Video wall project

*The draft was in public review through the end of the day 2 March 2015.*

*Comments were received and need to be resolved. See Summary\_E1-50\_FrstRevw.pdf.*

Richard Nix reported that the task group will meet to resolve the comments, which all seem to be useful comments.

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

Shawn Nolan reported that the task group has scratched the surface of the workload, and that they plan to have a document to share with the working group at the next meeting [July].

## 8 Other business and announcements

### 8.1 Jay Glerum Celebration

Bill Sapsis announced that he is hosting a Jay Glerum Celebration from 7:00 to 8:30 in room 232 in the Duke Convention Center.

### 8.2 NATEAC 2016

Bill Sapsis announced that he will be holding NATEAC in July 2016 in New York City.

### 8.3 Above & Beyond Awards

Bill Sapsis reminded that group that the nomination site is open year round at [tsp.plasa.org/AboveandBeyond](http://tsp.plasa.org/AboveandBeyond).

### 8.4 TSP sessions at USITT 2015

Erin Grabe reported that two Technical Standards Program sessions were completed and that there was a good turnout for each.

### **8.5 TSP Funding**

Bill Sapsis made a plea for donations to the Technical Standards Program.

### **8.6 TSP sessions at LDI 2015**

Bill Sapsis reminded the group that information on PLASA sessions at LDI are due by the end of this meeting cycle.

### **8.7 CEN standards update**

Michael Lichter reported that Working Group 2 (Materials) is hard at work on their topic, and that Working Group 1 (Machinery) will soon meet in London. Working Groups 3 and 4 will be working on terms and definitions. He noted the effort to harmonize EU standards that will be valid across the whole union.

### **9 Schedule for future meetings**

The next meeting will be held on Friday, 24 July at the D/FW Marriott Solana in Westlake, TX from 9:00 – 13:00. See <http://na.plasa.org/news/meetings.php> for the most current schedule.

### **10 Adjournment**

Bruce Darden moved to adjourn. The motion was seconded. Hearing no objections, Bill Sapsis declared the meeting adjourned at 21:00.

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
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 Van_Arsdale	University of Wisconsin - Madison	University of Wisconsin - Madison	A	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	Tait Towers Manufacturing LLC	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
Nils Becker	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP
Maria Bement	MGM Grand	MGM Grand	O	U
Patrick Leigh Bettington	Stage Technologies	Tait Towers Manufacturing LLC	A	CP
Ian Bevan	Walt Disney Parks and Resorts	Walt Disney Company	A	U
Roy Bickel	Roy Bickel	Roy Bickel	O	G
Scott M. Blair	Full Throttle Films/ VER	Full Throttle Films/ VER	O	DR
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Steve (BOZ) 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

Name	Company	Representing	Voting status	Int. cat.
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
Timothy Carlson	Circus Juventas	Circus Juventas	O	G
David Carmack	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	O	DR
Joseph Champelli	Entertainment Project Services, LLC	Entertainment Project Services, LLC	P	DE
Daniel J. 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 C. 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 W. A. Davidson	Risk International & Associates, Inc.	Risk International & Associates, Inc.	O	U
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

Name	Company	Representing	Voting status	Int. cat.
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	O	DR
Noga Eilon-Bahar	Eilon Engineering Industrial Weighing Systems	Eilon Engineering Industrial Weighing Systems	O	MP
Douglas M. Eldredge	LMG Inc.	LMG Inc.	O	DR
James B. 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	Theta-Consulting	O	G
Luca Galante	Alfa System Sas	Alfa System Sas	O	CP
Tony J. Galuppi	Tony J. Galuppi	Tony J. Galuppi	O	U
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	P	DE
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	O	G
Chris Geisler	Fluid Design Inc.	Fluid Design Inc.	O	DE
Ethan William Gilson	ALPS	Advanced Lighting and Production Services	P	U
Sanford P. 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 B. Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Michael P. Gosenski	Rigging Systems LLC	Rigging Systems LLC	O	U
Erin Grabe	PLASA NA	PLASA NA	exf	G
Thomas M. Granucci	Associated Students, Cox Arena	San Diego State University	O	U
Earle T. Greene	Walt Disney Parks and Creative Entertainment	Walt Disney Company	A	U
Pat Grenfell	Hoist Sales & Service	Hoist Sales & Service	P	DR

Name	Company	Representing	Voting status	Int. cat.
Joshua Grossman	Schuler Shook	Schuler Shook	A	DE
Joel A Guerra	Texas Scenic Company	Texas Scenic Company	A	DR
Don Halchak	Total Structures Inc.	Total Structures Inc.	A	MP
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
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	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 Lynn Houser	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	O	U
Donald Hoffend_III	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	Niscon 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	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U

Name	Company	Representing	Voting status	Int. cat.
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
Donald A. Hoffend_Jr.	Avista Designs, LLC	Avista Designs, LLC	P	G
Marcus Lopez Jr.	LMG Inc.	LMG Inc.	O	DR
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	O	DR
John Kaes	John Kaes	John Kaes	O	U
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
Stephen Lars Klein	Stephen Lars Klein	Stephen Lars Klein	O	DE
Jerald Kraft	JTH Lighting Alliance	JTH Lighting Alliance	P	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 P. 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 Van Lennep	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 J. Lopez	Automatic Devices Co.	Automatic Devices Co.	O	MP
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

Name	Company	Representing	Voting status	Int. cat.
Sam Lunetta	Michael Andrews	Michael Andrews	O	DR
Wendy Manson	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	O	U
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 Invenerprises, Inc.	O	CP
Bob McVay	Schuler Shook	Schuler Shook	A	DE
Richard C. 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 T. 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 P. Moore	Hall Associates Flying Effects	Hall Associates Flying Effects	A	CP
Bartholomew J. Mueller	Recreation Engineering Inc.	Recreation Engineering Inc.	O	DE
John "Andrew" Munro	animaenagerie	animaenagerie	O	U
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

Name	Company	Representing	Voting status	Int. cat.
James Niesel	Arup	Arup	O	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
Jennifer O'Leary	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Kimberly Corbett 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 A. (Ted) Paget	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP
Michael Parrella	Arup	Arup	A	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. Anthony Phillips	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	U
Philip J. Piszczak	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
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

Name	Company	Representing	Voting status	Int. cat.
Jean-Phillippe Robitaille	Show Distribution Group, Inc.	Show Distribution Group, Inc.	A	MP
Rick Rosas	Texas Scenic Company	Texas Scenic Company	A	DR
Karl G. Ruling	PLASA NA	PLASA NA	exf	G
Shawn Sack	A.C.T. Lighting	A.C.T. Lighting	P	DR
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	Scheu Consulting Services, Inc.	P	DE
Chris Schmidt	Stage Rigging, Inc.	Freeman Companies	A	DR
Peter "Punch" Christian Schmidtke	Hollywood Lighting Services, Inc.	Hollywood Lighting, Inc.	O	DR
Jason Schumacher	ZFX Flying Inc.	ZFX Flying Inc.	A	CP
Joseph S. 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 C. Shaw	Levitating Productions, Inc.	Levitating Productions, Inc.	P	MP
Harold Ike Shippers	Syracuse Scenery & Stage Lighting Co.Inc.	Syracuse Scenery & Stage Lighting Co.Inc.	A	DR
Q. Brian 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 Scott Sloan	William Scott Sloan	William Scott Sloan	O	U
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP
Todd Spencer	PSAV Presentation Services	PSAV Presentation Services	O	U
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
Karl V. Sutter-III	Kimley-Horn and Associates, Inc.	Kimley-Horn and Associates, Inc.	O	DE

Name	Company	Representing	Voting status	Int. cat.
Andy Sutton	AFX UK Ltd.	AFX UK Ltd.	O	U
Peter V. 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.	A	MP
Will Todd	Tomcat USA, Inc.	Milos Group	P	MP
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
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. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	P	DE
Max A. Wilson	Applied Electronics	Applied Electronics	P	MP
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Robert Young	Arup	Arup	P	DE

**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