

Minutes
Rigging Working Group
Saturday, 18 July 2009
Marriott Solana
Westlake, TX

Chairmen: Bill Sapsis; Sapsis Rigging, Inc.; P; U
Kent H. Jorgensen; IATSE Local 80; P; G

Recording secretary: Karl G. Ruling; ESTA

Members signing the attendance sheet:

Woody Pyeatt; A V Pro, Inc.; P; DR
Wendy Holt; AMPTP; P; G
William Conner; Bill Conner Associates LLC, representing ASTC; P; U
Jon Lenard; Applied Electronics; P; MP
James Niesel; Arup; P; G
Donald A. Hoffend, Jr.; Avista Designs, LLC; P; G
Herb Hart; Columbus McKinnon Corp.; P; MP
Edward A. (Ted) Paget; Vortek Rigging Division (Daktronics Inc.); A; CP
M. Brad Dittmer; Downhome Productions; P; U
Harvey Sweet; Electronic Theatre Controls, Inc.; P; MP
Michael Lichter; Electronic Theatre Controls Inc.; A; MP
Dan Lisowski; Fisher Technical Services, Inc.; A; CP
Rocky Paulson; Stage Rigging, Inc. (Freeman Companies); P; DR
John Ringelman; Stage Rigging, Inc. (Freeman Companies); A; DR
Reid Neslage; H & H Specialties Inc.; P; MP
Ed Garstkievicz; Harting Inc., North America (Harting KGAA); P; G
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Peter V. Svitavsky; J.R. Clancy Inc.; P; CP
Mike Garl; James Thomas Engineering, Inc.; P; MP
Louis Bradfield; O; U
Martin Moore; I; G
Shawn Nolan; Nolan Engineering Services, LLC; P; G
Tim Hansen; Oasis Stage Werks; P; DR
John (Jack) Miller; Scenic Technologies (Production Resource Group); principal; CP
Rick Montgomery; R&M Materials Handling; P; MP
Joe Ingle; R&M Materials Handling; A; MP
Bruce Darden; Rigging Innovators, Inc.; P; CP
Peter A. Scheu; Scheu Consulting Services; P; G
Kimberly Corbett; Schuler Shook; P; G
Dan Culhane; SECOA; SECOA; P; 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
Mark Newlin; Texas Scenic Company; A; DR
Jerry Gorrell; Theatre Safety Programs; P; G
Jeff Wilkowski; Thern, Inc.; P; MP
Elmer Veith; Total Structures - Eastern US Sales Office (Total Structures, Inc.); A; MP
Keith Bohn; Tomcat USA, Inc. (Vitec Group plc); P; MP

Visitors: No visitors signed the attendance sheet

1 Opening remarks

Bill Sapsis called the meeting to order at 19:02. He introduced Bill Price, who issued a request for working group members to review the ESET glossary of rigging terms.

When Price was finished, Bill Sapsis welcomed those present to Westlake, Texas. He comment on the difficult economic situation, and said that he really appreciating the effort and expense of coming to the meeting.

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 attendance sign-in sheet was circulated. Those present were instructed to find their names on the sheet and check off that they were present, or to add their names to the visitors pages.

2.3 Call for quorum

Sapsis asked for a voters' show of hands. He counted the upraised hands and then announced that a quorum was present and business could be conducted.

2.4 Requirements for membership

Bill Sapsis reminded the assembly that membership is open to all who are affected by the work of the group. People who would be in the dealer/rental company or user interest groups 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:

Jon Lenard; Applied Electronics

Jon Lenard was present, so there was no status change.

2.6 Processing of new membership requests

The following applications had been received:

Bob Murphy; Occams Razor Technical Services; observer; G
John (Jack) Miller; Scenic Technologies (Production Resource Group); principal; CP
Joseph Champelli; ZFX Flying Inc.; principal; DR
Martin Moore; individual; G
Michael Lichter; Electronic Theatre Controls; alternate; MP (change of voting status)
Michael Wells; Xtreme Structures & Fabrication; principal; CP
Andre Broucke; observer; G
Rick Montgomery, R&M Materials Handling; principal; MP

Steve Surratt asked that Mark Newlin of Texas Scenic be moved from observer to alternate status.

Ed Garstkiewicz of Harting asked to be moved from observer to principal status.

Eddie Kramer moved that the applications be accepted, except that those asking for voting status but not present be accepted as observers. The motion was seconded and then accepted with a show of hands.

Joseph Champelli of ZFX Flying Inc. and Michael Wells of Xtreme Structures & Fabrication, who had applied for principal voting status, were not present and were therefore accepted as observers.

2.7 Consensus body

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

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|------------------------|-----------------------------------|---|------------------|--------------|
| Woody Pyeatt | A V Pro, Inc. | A V Pro, Inc. | P | DR |
| William Bradburn | Aerial Arts, Inc. | Aerial Arts, Inc. | P | U |
| Wendy Holt | AMPTP | Alliance of Motion Picture and Television Producers | P | G |
| William Conner | Bill Conner Associates LLC | Amer. Society of Theatre Consultants | P | U |
| R. Duane Wilson | George C. Izenour Associates | Amer. Society of Theatre Consultants | A | U |
| Jon Lenard | Applied Electronics | Applied Electronics | P | MP |
| James Niesel | Arup | Arup | P | G |
| Donald A. Hoffend, Jr. | Avista Designs, LLC | Avista Designs, LLC | P | G |
| Charlie Weiner | Charlie Weiner | Charlie Weiner | P | U |
| Ted Jones | Chicago Spotlight, Inc. | Chicago Spotlight, Inc. | P | U |
| Herb Hart | Columbus McKinnon Corp. | Columbus McKinnon Corp. | P | MP |
| Pat Grenfell | Vortek | Daktronics Inc. | P | CP |
| Edward A. (Ted) Paget | Vortek Rigging Division | Daktronics Inc. | A | CP |
| M. Brad Dittmer | Downhome Productions | Downhome Productions | P | U |
| Harvey Sweet | Electronic Theatre Controls, Inc. | Electronic Theatre Controls, Inc. | P | MP |
| Michael Lichter | Electronic Theatre Controls Inc. | Electronic Theatre Controls Inc. | A | MP |
| Dana Bartholomew | Fisher Technical Services | Fisher Technical Services, Inc. | P | CP |
| Dan Lisowski | Fisher Technical Services, Inc. | Fisher Technical Services, Inc. | A | CP |
| Rocky Paulson | Stage Rigging, Inc. | Freeman Companies | P | DR |
| John Ringelman | Stage Rigging, Inc. | Freeman Companies | A | DR |
| Reid Neslage | H & H Specialties Inc. | H & H Specialties Inc. | P | MP |
| Ed Garstkiewicz | Harting Inc., North America | Harting KGAA | P | G |
| Edwin S. Kramer | I.A.T.S.E. Local 1 | I.A.T.S.E. Local 1 | P | U |
| Roger Lattin | I.A.T.S.E. Local 728 | I.A.T.S.E. Local 728 | P | U |
| Kent H. Jorgensen | IATSE Local 80 | IATSE Local 80 | P | G |
| Peter V. Svitavsky | J.R. Clancy Inc. | J. R. Clancy Inc. | P | CP |
| Rodney F. Kaiser | J.R. Clancy Inc. | J.R. Clancy, Inc. | A | CP |
| Thomas S. Young | J.R. Clancy Inc. | J.R. Clancy, Inc. | A | CP |
| Mike Garl | James Thomas Engineering, Inc. | James Thomas Engineering, Inc. | P | MP |
| Tray Allen | James Thomas Engineering, Inc. | James Thomas Engineering, Inc. | A | MP |
| William Beautyman | Limelight Productions, Inc. | Limelight Productions, Inc. | P | DR |

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|----------------------|--|--|------------------|--------------|
| Bob Medve | Limelight Productions, Inc. | Limelight Productions, Inc. | A | DR |
| Martin Moore | Martin Moore | Martin Moore | I | G |
| Vincent J. Cannavale | Motion Laboratories | Motion Laboratories | P | CP |
| Peter Herrmann | Motion Laboratories | Motion Laboratories | A | CP |
| David Herrmann | Motion Laboratories | Motion Laboratories | A | CP |
| Shawn Sack | Mountain Productions Inc. | Mountain Productions Inc. | P | DR |
| Shawn Nolan | Nolan Engineering Services, LLC | Nolan Engineering Services, LLC | P | G |
| Tim Hansen | Oasis Stage Werks | Oasis Stage Werks | P | DR |
| Spencer Brown | Oasis Stage Werks | Oasis Stage Werks | A | DR |
| Ron Bonner | PLASA | PLASA | P | G |
| John (Jack) Miller | Scenic Technologies | Production Resource Group | P | CP |
| Rick Montgomery | R&M Materials Handling | R&M Materials Handling | P | MP |
| Steven Graham | R&M Materials Handling | R&M Materials Handling | A | MP |
| Joe Ingle | R&M Materials Handling | R&M Materials Handling | A | MP |
| Bruce Darden | Rigging Innovators, Inc. | Rigging Innovators, Inc. | P | CP |
| Bill Sapsis | Sapsis Rigging, Inc. | Sapsis Rigging, Inc. | P | U |
| Peter A. Scheu | Scheu Consulting Services | Scheu Consulting Services | P | G |
| Kimberly Corbett | Schuler Shook | Schuler Shook | P | G |
| Joshua Grossman | Schuler Shook | Schuler Shook | A | G |
| Dan Culhane | SECOA | SECOA | P | CP |
| Jerald Kraft | SECOA | SECOA | A | CP |
| Knut Skjonberg | Skjonberg Controls, Inc. | Skjonberg Controls, Inc. | P | CP |
| Monica Skjonberg | Skjonberg Controls, Inc. | Skjonberg Controls, Inc. | A | CP |
| Nathan Wells | Stage Technologies | Stage Technologies | P | MP |
| Steve Walker | Steve A. Walker & Associates | Steve A. Walker & Associates | P | G |
| Richard J. Nix | Entertainment Structures Group | Steven Schaefer Associates | P | G |
| Kyle Kusmer | Entertainment Structures Group | Steven Schaefer Associates | A | G |
| Daniel J. Clark | Entertainment Structures Group | Steven Schaefer Associates | A | G |
| Jeff Reder | Entertainment Structures Group | Steven Schaefer Associates | A | G |
| Christine L. Kaiser | Syracuse Scenery & Stage Lighting Co., Inc. | Syracuse Scenery & Stage Lighting Co., Inc. | P | DR |
| Frank Willard | Syracuse Scenery & Stage Lighting Co., Inc. | Syracuse Scenery & Stage Lighting Co., Inc. | A | DR |
| Stephen G. Surratt | Texas Scenic Company | Texas Scenic Company | P | DR |
| Eugene Leitermann | Theatre Projects Consultants, Inc. | Theatre Projects Consultants, Inc. | P | G |

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|---------------------|---|---|------------------|--------------|
| Jerry Gorrell | Theatre Safety Programs | Theatre Safety Programs | P | G |
| Jeff Wilkowski | Thern, Inc. | Thern, Inc. | P | MP |
| Adrian Forbes-Black | Total Structures Inc. | Total Structures Inc. | P | MP |
| Elmer Veith | Total Structures - Eastern US Sales Office | Total Structures, Inc. | A | MP |
| Theresa Kelley | Total Structures Inc. | Total Structures Inc. | A | MP |
| 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 |
| | | Total votes possible | 48 | |
| | | Votes by interest category | 8 | CP |
| | | | 10 | MP |
| | | | 7 | DR |
| | | | 9 | U |
| | | | 14 | G |

3 Approval of minutes from the previous meeting

The draft minutes of the 18 March 2009 minutes were discussed and amended.

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

4 ESTA declarations

4.1 Anti-trust statement

Kent Jorgensen read the following statement aloud to the assembly:

"The ESTA Board of Directors, the Technical Standards Committee, 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 ESTA president immediately.

"ESTA 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 Technical Standards Manager held up copies of the easy-to-read pamphlets to show that they were available. Bill Conner requested a copy and was given one.

4.2 Call for patents

Kent Jorgensen read the following statement aloud to the assembly:

"ESTA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent and

copyright disclosures to implement its intent. ESTA does not conduct patent or copyright searches and does not warrant that its standards contain no protected intellectual property.

"In keeping with the open disclosures policy, I ask if anyone present wishes to notify this working group of the existence of a patent 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."

No protected intellectual property was brought to the attention of the assembly.

5 Approval of the agenda

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

6 Old business

6.1 ANSI E1.1-2006, wire rope ladders revision

No news or action.

6.2 ANSI E1.2-2006, aluminum towers and trusses revision

No news or action.

6.3 ANSI E1.4, manual rigging systems

Karl Ruling reported that ANSI E1.4 is now published and available for sale from the ESTA Foundation.

6.4 BSR E1.6-1, powered hoist systems

Harvey Sweet reported that the task group has worked very hard on the document and put in many hours. He thanked the working group for the comments that were submitted by email. He reported that it uses risk assessment as a central tool in designing a hoisting system. This risk assessment is a powerful new tool, and its use is a radical new direction for our standards.

Harvey Sweet moved that the draft standard be voted for on a public review by letter ballot. The motion was seconded. There was discussion. Opposition to the motion was based on the current version of this document not having been presented to the working group and therefore there being no discussion of the current version of the draft standard. The defense of the motion was that not taking the vote now would simply delay the process, and people will have lots of time to read it and to offer comments or objections as part of the letter ballot process that would be read and considered by the rest of the voters.

The motion to approve a public review vote by letter ballot was approved by a show of hands.

Harvey Sweet moved that comment resolution as had been directed by the rigging working group in the March meeting also be sent to the working group for approval by a letter ballot. The motion was seconded. The motion was approved by a show of hands.

Dan Culhane moved that a reminder of the existence of CWA 25 and a link to where it may be purchased shall be sent to the members of the RWG for consideration at the same time that they vote on the revised draft of E1.6-1. The motion was seconded and then approved with a show of hands.

6.5 BSR E1.6-2, electric chain hoists

Dan Culhane reported that the task group met for 8 hours and created a set of possible comment resolutions and a revised draft standard.

Dan Culhane moved that the proposed public review comment resolutions drafted by the task group be approved by a letter ballot. The motion was seconded. There was discussion. The objections were based on the working group not having seen these possible resolutions and having no opportunity to discuss them. Mike Garl questioned why we are requiring meeting attendance if there is no serious discussion of

the documents at meetings and everything is voted on by letter ballot. Others suggested that if there is to be serious discussion at working group meetings, that a PA system, visual aids, and adequate seating be provided to make discussion possible. Dan Culhane withdrew his motion.

6.6 BSR E1.6-3, selection and use of serially manufactured electric chain hoists in the entertainment industry

Attempt to resolve objections to the public review motion, find a way forward. See BSRE1-6-3_2008-2019.pdf and WG_E1-6-3BallotSmmry2.pdf.

Rocky reported that the task group had worked to resolve all the comments in the vote. The document is not ready for a public review now. He offered to go through the resolutions if people want, but suggested that it would be better to send the task group's work to the working group in written form.

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

Progress report and any actions relevant to the BSR E1.6-4 project.

Eddie Kramer reported that the task group has had some email exchanges to further the document's development. The task group had not managed to get together for a meeting at the Marriott Solana this meeting cycle, but the project is moving ahead.

6.8 ANSI E1.8-2005, speaker enclosures for rigging standard

No news or action, but there was discussion of when work needs to start to reaffirm, revise, or withdraw it.

6.9 ANSI E1.15-2006, boom & base assemblies

No news or action at this time.

6.10 ANSI E1.21-2006, portable roof systems

No news or action at this time.

6.11 ANSI E1.22, fire safety curtain systems

Karl Ruling reported that ANSI E1.22 is now published and available for sale from the ESTA Foundation.

6.12 Arup fire modeling project progress report

Jim Niesel gave a PowerPoint presentation with video of the fire modeling project thus far. It has fallen behind schedule and is likely to be finished in the first quarter 2010. Task IV, stage ventilation modeling, remains to be done. This will show us if the prescribed smoke control is effective, if all the features normally used with a fire safety curtain system work together. The modeling so far has shown which sprinklers are likely to activate first and the locations where fusible links or rate of rise detectors are slowest to activate.

6.13 Temporary structures and wind loads

From the January 2009 minutes: "Keith Bohn suggested that a standard is needed for temporary structures other than roofs, such as delay towers. These structures are particularly susceptible to failures due to wind-loading. He offered to write a draft scope and to fill out the standards proposal form so the project can be considered more thoroughly at the next working group meeting."

Keith Bohn had submitted before the meeting a proposal form and a draft scope statement for the working group to consider. He moved that the project "Temporary Ground-Supported Structures Used to Support Equipment in the Production of Outdoor Entertainment Events," be accepted by the working group. The motion was seconded. There was discussion, which included a consideration of perhaps adding the material that might be in this standard to ANSi E1.21. The motion was accepted with a show of hands.

7 New business

7.1 Personal Fall Arrest Systems

Action relevant to a proposal to write a standard for personal fall arrest systems in the live entertainment industry. See PFAS_FrstDrft.pdf and PFAS_ProposalForm.pdf.

Rocky Paulson presented his proposal and explained why this is a timely project. The issue of workers on temporary structures is something that has bothered him since 1992. There is really no clearly legal way to have a worker on a truss. He related a story of an OSHA inspector in Michigan citing an employer who had workers on a truss. The inspector demanded that the workers need to have fall arrest system attached to the building (not the temporary rigging structure) or work from elevated personnel lifts.

Eddie Kramer moved that Rocky's proposal, "Entertainment Technology – The Use of Fall Protection on Temporary Suspended and Ground-Supported Structures," be accepted. The motion was seconded and then approved with a show of hands.

7.2 Other new business

Jon Lenard moved that task group chairs submit the most current version of their draft documents for distribution to the working group three weeks before the next meeting. The motion was seconded. There was discussion, with people arguing against this because some of the draft documents are not ready for consumption, and others spoke in favor, arguing that this would allow the working group to see what task groups are doing and correct them if they are going down the wrong path. The motion was seconded and then approved with a show of hands.

Karl Ruling was directed to send a reminder to the task groups that the draft documents will be needed for distribution three weeks before the next meeting.

8 Other business and announcements

Ed Garstkiewicz moved that Jody Williquette be accepted as his alternate for Harting. The motion was seconded and then approved with a show of hands.

9 Schedule for future meetings

Sapsis announced that the next working group meeting is scheduled for Wednesday, November 18, from 19:00 to 23:00. The following meeting is scheduled for Saturday, 23 January 2010, from 19:00 to 23:00. [The meeting schedule has been changed since this announcement was made at the 18 July 2009 working group meeting; these announced dates are no longer correct.]

10 Adjournment

Richard Nix moved that the meeting adjourn. The motion was seconded and then approved with a show of hands. Bill Sapsis declared the meeting adjourned at 21:58.

Working Group Membership and Contact Information as of 12 August 2009

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|------------------------|---|---|---------------|-----------|
| Woody Pyeatt | A V Pro, Inc. | A V Pro, Inc. | P | DR |
| Baer Long | Ninja Rigging | Act 1 Rigging Inc. | O | G |
| Ethan William Gilson | ALPS | Advanced Lighting and Production Services | O | U |
| William Bradburn | Aerial Arts, Inc. | Aerial Arts, Inc. | P | U |
| Michael G. Wiener | Aerial Rigging & Leasing, Inc. | Aerial Rigging & Leasing, Inc. | O | U |
| Andy Sutton | AFX UK Ltd. | AFX UK Ltd. | O | U |
| Wendy Holt | AMPTP | Alliance of Motion Picture and Television Producers | P | G |
| William Conner | Bill Conner Associates LLC | Amer. Society of Theatre Consultants | P | U |
| R. Duane Wilson | George C. Izenour Associates | Amer. Society of Theatre Consultants | A | U |
| Jim Fletcher | American Sling Company, Inc. | American Sling Company, Inc. | O | MP |
| André Broucke | André Broucke | André Broucke | O | G |
| John "Andrew" Munro | animaenagerie | animaenagerie | O | U |
| Jon Lenard | Applied Electronics | Applied Electronics | P | MP |
| James Niesel | Arup | Arup | P | G |
| Dennis J. Lopez | Automatic Devices Co. | Automatic Devices Co. | O | MP |
| Donald A. Hoffend, Jr. | Avista Designs, LLC | Avista Designs, LLC | P | G |
| Jiantong Wu | Beijing Special Engineering Design & Research Institute | Beijing Special Engineering Design & Research Institute | O | G |
| Buddy Braile | Bestek Lighting & Staging | Bestek Lighting & Staging | O | U |
| Lee J. Bloch | Bloch Design Group, Inc. | Bloch Design Group, Inc. | O | G |
| Joachim Stoecker | CAMCO GmbH | CAMCO GmbH | O | MP |
| Charles E. Gorgen | Charles E. Gorgen | Charles E. Gorgen | O | G |
| Charlie Weiner | Charlie Weiner | Charlie Weiner | P | U |
| Ted Jones | Chicago Spotlight, Inc. | Chicago Spotlight, Inc. | P | U |
| Herb Hart | Columbus McKinnon Corp. | Columbus McKinnon Corp. | P | MP |

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|-----------------------|---|---|---------------|-----------|
| Mylan Lester | Creation Logics Ltd. | Creation Logics Ltd. | O | U |
| Howard R. Ott | D.E.O. Associates, Inc. | D.E.O. Associates, Inc. | O | G |
| Pat Grenfell | Vortek | Daktronics Inc. | P | CP |
| Edward A. (Ted) Paget | Vortek Rigging Division | Daktronics Inc. | A | CP |
| Harry Donovan | Donovan Rigging, Inc. | Donovan Rigging, Inc. | O | G |
| Wes Jenkins | Down Stage Right Industries | Down Stage Right Industries | O | CP |
| M. Brad Dittmer | Downhome Productions | Downhome Productions | P | U |
| Noga Eilon-Bahar | Eilon Engineering Industrial Weighing Systems | Eilon Engineering Industrial Weighing Systems | O | MP |
| Harvey Sweet | Electronic Theatre Controls, Inc. | Electronic Theatre Controls, Inc. | P | MP |
| Michael Lichter | Electronic Theatre Controls Inc. | Electronic Theatre Controls Inc. | A | MP |
| F. Robert Bauer | F.R. Bauer & Associates, LLC | F.R. Bauer & Associates, LLC | O | G |
| Cristina Delboni | Feeling Structures | Feeling Structures | O | MP |
| Dana Bartholomew | Fisher Technical Services | Fisher Technical Services, Inc. | P | CP |
| Dan Lisowski | Fisher Technical Services, Inc. | Fisher Technical Services, Inc. | A | CP |
| Ben Hayes | Freedom Flying | Freedom Flying | O | G |
| Rocky Paulson | Stage Rigging, Inc. | Freeman Companies | P | DR |
| Dean Hart | Stage Rigging, Inc. | Freeman Companies | O | U |
| John Ringelman | Stage Rigging, Inc. | Freeman Companies | A | DR |
| David M. Campbell | Geiger Engineers | Geiger Engineers | O | G |
| Timothy Mills | Geiger Engineers | Geiger Engineers | O | G |
| Reid Neslage | H & H Specialties Inc. | H & H Specialties Inc. | P | MP |
| Delbert Hall | Hall Associates Inc. | Hall Associates Inc. | O | U |
| Ed Garstkiewicz | Harting Inc., North America | Harting KGAA | P | G |
| Howard Forryan | Harting Ltd. | Harting KGAA | O | MP |
| Jody Williquette | Harting Inc., North America | Harting KGAA | A | G |

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|-----------------------------------|--------------------------------------|---|---------------|-----------|
| Peter "Punch" Christian Schmidtke | Hollywood Lighting Services, Inc. | Hollywood Lighting, Inc. | O | DR |
| Edwin S. Kramer | I.A.T.S.E. Local 1 | I.A.T.S.E. Local 1 | P | U |
| G. Anthony Phillips | I.A.T.S.E. Local 16 | I.A.T.S.E. Local 16 | O | U |
| Gregory C. Collis | I.A.T.S.E. Local 16 | I.A.T.S.E. Local 16 | O | G |
| Roger Lattin | I.A.T.S.E. Local 728 | I.A.T.S.E. Local 728 | P | U |
| Michael Dileso | IATSE Local 481 | IATSE Local 481 | O | U |
| Kent H. Jorgensen | IATSE Local 80 | IATSE Local 80 | P | G |
| Peter V. Svitavsky | J.R. Clancy Inc. | J. R. Clancy Inc. | P | CP |
| Rodney F. Kaiser | J.R. Clancy Inc. | J.R. Clancy, Inc. | A | CP |
| Thomas S. Young | J.R. Clancy Inc. | J.R. Clancy, Inc. | A | CP |
| Mike Garl | James Thomas Engineering, Inc. | James Thomas Engineering, Inc. | P | MP |
| Tray Allen | James Thomas Engineering, Inc. | James Thomas Engineering, Inc. | A | MP |
| Jay O. Glerum | Jay O. Glerum & Associates, Inc. | Jay O. Glerum & Associates, Inc. | O | U |
| Chuck McClelland | Jeamar Winches Inc. | Jeamar Winches Inc. | O | MP |
| John Kaes | John Kaes | John Kaes | O | U |
| John R. Burgess | John R. Burgess | John R. Burgess | O | U |
| Christopher Purpura | Jones & Phillips Associates, Inc. | Jones & Phillips Associates, Inc. | O | G |
| Nevin Kleege | Kleege Industries | Kleege Industries | O | U |
| Mark Riddlesperger | LA ProPoint, Inc. | LA ProPoint, Inc. | O | CP |
| Katherine Tharp | LA ProPoint, Inc. | LA ProPoint, Inc. | O | CP |
| William Beautyman | Limelight Productions, Inc. | Limelight Productions, Inc. | P | DR |
| Bob Medve | Limelight Productions, Inc. | Limelight Productions, Inc. | A | DR |
| Louis Bradfield | Louis Bradfield | Louis Bradfield | O | U |
| Martin Moore | Martin Moore | Martin Moore | I | G |
| Michael L. Savage, Sr. | Middle Dept. Inspection Agency, Inc. | Middle Dept. Inspection Agency, Inc. | O | G |

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|-----------------------|-----------------------------------|---|---------------|-----------|
| Michael J. Carnaby | Mikan Theatricals | Mikan Theatricals | O | DR |
| Todd Petersen | Mixed Productions | Mixed Productions | O | U |
| Vincent J. Cannavale | Motion Laboratories | Motion Laboratories | P | CP |
| Peter Herrmann | Motion Laboratories | Motion Laboratories | A | CP |
| David Herrmann | Motion Laboratories | Motion Laboratories | A | CP |
| Shawn Sack | Mountain Productions Inc. | Mountain Productions Inc. | P | DR |
| James B. Evans | Mountain Productions Inc. | Mountain Productions Inc. | O | DR |
| Bradford A. Kegel | National Production Services Inc. | National Production Services Inc. | O | U |
| François Deffarges | Nexo | Nexo | O | MP |
| Shawn Nolan | Nolan Engineering Services, LLC | Nolan Engineering Services, LLC | P | G |
| Tracy Nunnally | Northern Illinois University | Northern Illinois University | O | U |
| Ted Hickey | OAP Audio Products | OAP Audio Products | O | MP |
| Tim Hansen | Oasis Stage Werks | Oasis Stage Werks | P | DR |
| Gary Justesen | Oasis Stage Werks | Oasis Stage Werks | O | DR |
| Spencer Brown | Oasis Stage Werks | Oasis Stage Werks | A | DR |
| Bob Murphy | Occams Razor Technical Services | Occams Razor Technical Services | O | G |
| Robert A. Grenier Jr. | Ocean State Rigging Systems Inc. | Ocean State Rigging Systems Inc. | O | DR |
| Ron Bonner | PLASA | PLASA | P | G |
| Michael Patterson | Pook Diemont & Ohl, Inc. | Pook Diemont & Ohl, Inc. | O | CP |
| John (Jack) Miller | Scenic Technologies | Production Resource Group | P | CP |
| Marc Hendriks | Prolyte | Prolyte | O | MP |
| Douglas Franz | QVC Network | QVC Network | O | U |
| Rick Montgomery | R&M Materials Handling | R&M Materials Handling | P | MP |
| Steven Graham | R&M Materials Handling | R&M Materials Handling | A | MP |
| Joe Ingle | R&M Materials Handling | R&M Materials Handling | A | MP |

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|------------------------|---------------------------------------|---|---------------|-----------|
| Scott Mohr | R&R Cases and Cabinets | R&R Cases and Cabinets | O | G |
| Daniel Lynn Houser | Real Rigging Solutions, LLC | Real Rigging Solutions, LLC | O | U |
| Michael Reed | Reed Rigging, Inc. | Reed Rigging, Inc. | O | U |
| Rinus Bakker | Rhino Rigs B.V. | Rhino Rigs B.V. | O | G |
| Bruce Darden | Rigging Innovators, Inc. | Rigging Innovators, Inc. | P | CP |
| Rikki Newman | Rikki Newman | Rikki Newman | O | U |
| Randall W. A. Davidson | Risk International & Associates, Inc. | Risk International & Associates, Inc. | O | U |
| Roy Bickel | Roy Bickel | Roy Bickel | O | G |
| Thomas M. Granucci | Associated Students, Cox Arena | San Diego State University | O | U |
| Bill Sapsis | Sapsis Rigging, Inc. | Sapsis Rigging, Inc. | P | U |
| Peter A. Scheu | Scheu Consulting Services | Scheu Consulting Services | P | G |
| Kimberly Corbett | Schuler Shook | Schuler Shook | P | G |
| Joshua Grossman | Schuler Shook | Schuler Shook | A | G |
| Dan Culhane | SECOA | SECOA | P | CP |
| Jerald Kraft | SECOA | SECOA | A | CP |
| Shaun Millington | SEW-Eurodrive, Inc. | SEW-Eurodrive, Inc. | O | MP |
| Rob Stevenson | SEW-Eurodrive, Inc. | SEW-Eurodrive, Inc. | O | MP |
| Knut Skjonberg | Skjonberg Controls, Inc. | Skjonberg Controls, Inc. | P | CP |
| Monica Skjonberg | Skjonberg Controls, Inc. | Skjonberg Controls, Inc. | A | CP |
| Robert Barbagallo | Solotech Inc. | Solotech Inc. | O | DR |
| Jon Lagerquist | South Coast Repertory | South Coast Repertory | O | U |
| Nathan Wells | Stage Technologies | Stage Technologies | P | MP |
| Olan Cottrill | Staging Productions, Inc. | Staging Productions, Inc. | O | DR |
| Roger Barrett | Star Events Group Ltd. | Star Events Group Ltd. | O | DR |
| Steve Walker | Steve A. Walker & Associates | Steve A. Walker & Associates | P | G |

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|----------------------|---|---|---------------|-----------|
| Richard J. Nix | Entertainment Structures Group | Steven Schaefer Associates | P | G |
| Kyle Kusmer | Entertainment Structures Group | Steven Schaefer Associates | A | G |
| Daniel J. Clark | Entertainment Structures Group | Steven Schaefer Associates | A | G |
| Jeff Reder | Entertainment Structures Group | Steven Schaefer Associates | A | G |
| Christine L. Kaiser | Syracuse Scenery & Stage Lighting Co., Inc. | Syracuse Scenery & Stage Lighting Co., Inc. | P | DR |
| Frank Willard | Syracuse Scenery & Stage Lighting Co., Inc. | Syracuse Scenery & Stage Lighting Co., Inc. | A | DR |
| Reuben Goldberg | Technic Services | Technic Services | O | U |
| Stephen G. Surratt | Texas Scenic Company | Texas Scenic Company | P | DR |
| Richard C. Mecke | Texas Scenic Company | Texas Scenic Company | O | DR |
| Mark Newlin | Texas Scenic Company | Texas Scenic Company | O | DR |
| Eugene Leitermann | Theatre Projects Consultants, Inc. | Theatre Projects Consultants, Inc. | P | G |
| Jerry Gorrell | Theatre Safety Programs | Theatre Safety Programs | P | G |
| Ed Nicholas | Theatrical Lighting Systems, Inc. | Theatrical Lighting Systems, Inc. | O | DR |
| John Van Lennep | Theatrix Inc. | Theatrix Inc. | O | DR |
| John C. Snook | Thermotex Industries Inc. | Thermotex Industries Inc. | O | CP |
| Jeff Wilkowski | Thern, Inc. | Thern, Inc. | P | MP |
| Tim Franklin | Theta-Consulting | Theta-Consulting | O | G |
| Chris Higgs | Total Solutions Group | Total Solutions Group | O | G |
| Adrian Forbes-Black | Total Structures Inc. | Total Structures Inc. | P | MP |
| Ian Coles | Total Structures, Inc. | Total Structures, Inc. | O | MP |
| Peter Johns | Total Structures, Inc. | Total Structures, Inc. | O | MP |
| Elmer Veith | Total Structures - Eastern US Sales Office | Total Structures, Inc. | A | MP |
| Theresa Kelley | Total Structures Inc. | Total Structures Inc. | A | MP |
| JoAnna Kamorin-Lloyd | Vincent Lighting Systems | Vincent Lighting Systems | O | U |
| Michael Keppler | Bogen | Vitec Group | O | MP |

| Name | Company | Representing (This is the sort field.) | Voting status | Int. cat. |
|------------------|---------------------------------|---|---------------|-----------|
| Keith Bohn | Tomcat USA, Inc. | Vitec Group plc | P | MP |
| Will Todd | Tomcat USA, Inc. | Vitec Group plc | A | MP |
| Hank Miller | W.E. Palmer Co. | W.E. Palmer Co. | O | CP |
| Rand Goddard | W.E. Palmer Co. | W.E. Palmer Co. | O | CP |
| Pete Happe | Walt Disney Imagineering | Walt Disney Company | P | U |
| Warren A. Bacon | Warren A. Bacon | Warren A. Bacon | O | U |
| Michael Wells | Xtreme Structures & Fabrication | Xtreme Structures & Fabrication | O | CP |
| Joseph Champelli | ZFX Flying Inc. | ZFX Flying Inc. | O | DR |
| Robert Dean | ZFX Inc. | ZFX Inc. | O | CP |

Voting status

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

Interest categories

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