

**Minutes**  
**Rigging Working Group**  
Wednesday, 19 March 2008  
Hilton Americas Houston  
Houston, Texas

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

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

**Members attending:**

William Conner; Bill Conner Associates LLC, representing the American Society of Theatre Consultants; P; U  
Jon Lenard; Applied Electronics; P; MP  
James Niesel; ARUP; P; G  
Ted Jones; Chicago Spotlight, Inc.; P; U  
Don Dimitroff; Columbus McKinnon Corp.; P; MP  
Herb Hart; Columbus McKinnon Corp.; A; MP  
Edward A. (Ted) Paget; Vortek Rigging Division (Daktronics Inc.); A; CP  
M. Brad Dittmer; Downhome Productions; P; U  
Joseph Champelli; Fisher Technical Services, Inc. (FTSI); P; CP  
Reid Neslage; H & H Specialties Inc.; P; MP  
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U  
Peter V. Svitavsky; J.R. Clancy Inc.; P; CP  
Rodney F. Kaiser; J.R. Clancy Inc.; A; CP  
Mike Garl; James Thomas Engineering, Inc.; P; MP  
Tray Allen; James Thomas Engineering, Inc.; A; MP  
Harvey Sweet; LA ProPoint, Inc.; P; DR  
William Beautyman; Limelight Productions, Inc.; P; DR  
Bob Medve; Limelight Productions, Inc.; A; DR  
Michael J. Carnaby; Mikan Theatricals; P; DR  
Vincent J. Cannavale; Motion Laboratories; P; CP  
Peter Herrmann; Motion Laboratories; A; CP  
David Herrmann; Motion Laboratories; A; CP (joined at this meeting)  
Tim Hansen; Oasis Stage Werks; P; DR  
Ron Bonner; PLASA; P; G  
Bruce Darden; Rigging Innovators, Inc.; P; CP  
Peter A. Scheu; Scheu Consulting Services; P; G  
Kimberly Corbett; Schuler Shook; P; G  
Dan Culhane; SECOA; P; CP  
Knut Skjonberg; Skjonberg Controls, Inc.; P; CP  
Monica Skjonberg; Skjonberg Controls, Inc.; A; CP  
Nathan Wells; Stage Technologies; P; MP (joined at this meeting)  
Steve Walker; Steve A. Walker & Associates; P; G  
Daniel J. Clark; Entertainment Structures Group (Steven Schaefer Associates); A; G (joined at this meeting)  
Jeff Reder; Entertainment Structures Group (Steven Schaefer Associates); A; G (joined at this meeting)  
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR  
Stephen G. Surratt; Texas Scenic Company; P; DR  
Theresa Kelley; Total Structures Inc.; A; MP  
Pete Happe; Walt Disney Imagineering (Walt Disney Company); P; U

**Visitor:** Wendy Holt; AMPTP

## 1 Opening remarks

Bill Sapsis called the meeting to order at 19:02. He welcomed all to Houston and noted the difficulty we all had in getting here due to the weather and the shut-down of the Dallas/Ft. Worth Airport.

## 2 Attendance and membership

### 2.1 Introduction of those present

Those present introduced themselves.

### 2.2 Circulation of attendance sign-in sheet

A red attendance sign-in sheet was circulated.

### 2.3 Call for quorum

Sapsis asked for voters to each hold up a hand. He counted the upraised hands and then announced that we have a quorum and business can be conducted.

### 2.4 Requirements for membership

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

"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. Any principal member and voting alternate who both miss three consecutive meetings will have their membership status changed to observer. This action will be taken as the last item of business at each meeting and recorded in the minutes of that meeting."

## 3 Processing of new membership requests

Membership applications had been received from the following, and were read to the assembly by Bill Sapsis:

Kyle Kusmer; Entertainment Structures Group (Steven Schaefer Associates); Alternate;  
General interest (G)

Daniel J. Clark; Entertainment Structures Group (Steven Schaefer Associates); A; G

Jeff Reder; Entertainment Structures Group (Steven Schaefer Associates); A; G

Donald Hoffend, Jr.; Avista Designs, LLC; Principal; G

Nathan Wells; Stage Technologies; Principal; Mass-market producer (MP)

Michael Lichter; Electronic Theatre Controls Gmbh (ETC); Observer; MP

David Herrmann; Motion Laboratories; A; Custom-market producer (CP)

Donald Hoffend was not present, so Sapsis suggested that he be voted in as an observer, since meeting attendance is a requirement for voting members, and, since he is not present, he cannot vote in any case.

Eddie Kramer moved that we accept the applications, with the exception that Hoffend be brought in as an observer. When he attends a meeting and is present to vote he can request voting status. The motion was seconded and then approved with a unanimous show of hands.

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

Name	Company	Representing (This is the sort field.)	Voting status	Interest category
William Bradburn	Aerial Arts, Inc.	Aerial Arts, Inc.	P	U
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

Name	Company	Representing (This is the sort field.)	Voting status	Interest category
James Niesel	ARUP	ARUP	P	G
Charlie Weiner	Charlie Weiner	Charlie Weiner	P	U
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Pat Grenfell	Vortek	Daktronics Inc.	P	CP
Edward A. (Ted) Paget	Vortek Rigging Division	Daktronics Inc.	A	CP
Jake Winkelman	Vortek	Daktronics Inc.	A	CP
Robert Voss	Vortek	Daktronics Inc.	A	CP
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
Noga Eilon-Bahar	Eilon Engineering Industrial Weighing Systems	Eilon Engineering Industrial Weighing Systems	P	MP
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	P	DR
John Ringelman	Stage Rigging, Inc.	Freeman Companies	A	DR
Joseph Champelli	Fisher Technical Services, Inc.	FTSI	P	CP
Dana Bartholomew	Fisher Technical Services	FTSI	A	CP
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP
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
Harvey Sweet	LA ProPoint, Inc.	LA ProPoint, Inc.	P	DR
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Bob Medve	Limelight Productions, Inc.	Limelight Productions, Inc.	A	DR
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
David Herrmann	Motion Laboratories	Motion Laboratories	A	CP
Peter Herrmann	Motion Laboratories	Motion Laboratories	A	CP
Shawn Sack	Mountain Productions Inc.	Mountain Productions Inc.	P	DR
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
Steven Graham	R&M Materials Handling	R&M Materials Handling	P	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
Olan Cottrill	Staging Productions, Inc.	Staging Productions, Inc.	P	DR
Steve Walker	Steve A. Walker & Associates	Steve A. Walker & Associates	P	G
Richard J. Nix	Entertainment Structures Group	Steven Schaefer Associates	P	G

Name	Company	Representing (This is the sort field.)	Voting status	Interest category
Daniel J. Clark	Entertainment Structures Group	Steven Schaefer Associates	A	G
Jeff Reder	Entertainment Structures Group	Steven Schaefer Associates	A	G
Kyle Kusmer	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
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP
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
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U
		Total votes possible	45	
		Votes by interest category	8	CP
			10	MP
			9	DR
			9	U
			9	G

#### 4 Approval of minutes from the previous meeting

See Rig/2008-2004, file name RIGmin01-2008.pdf

Brad Dittmer moved that the minutes be accepted as written. The motion was seconded and then approved with a unanimous show of hands.

#### 5 ESTA declarations

##### 5.1 Anti-trust statement

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

"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."

Karl Ruling, the Technical Standards Manager, held up a copy of the easy-to-read pamphlet to show its availability. No restraint of trade issues were brought to the attention of the assembly.

##### 5.2 Call for patents

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

"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 reported.

## **6 Approval of the agenda**

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

## **7 Old business**

### **7.1 ANSI E1.1-2006, wire rope ladders revision**

No news or action.

### **7.2 ANSI E1.2-2006, aluminum towers and trusses revision**

No news or action.

### **7.3 BSR E1.4, manual rigging systems**

Karl Ruling reported that the ninth public review had ended on March 17. He had written to the eighth public review commenters to inform them of the public review. By the close of the review period, five people had commented and offered only a few comments. Ruling said that he'd not yet had time to collate the comments.

### **7.4 BSR E1.6-1, powered winch hoist systems**

Harvey Sweet said that the task group had met today (March 19) and will meet again tomorrow (March 20). The comment resolutions have taken more than a year so far, and will take another year. The task group is working to incorporate much material from CWA 25, thus making it document with an international perspective.

Karl Ruling said that he will write to the commenters to inform them of the delay and will file a BSR11 form for an extension with ANSI.

Steve Surratt asked to be added to the task group. Sapsis asked Harvey Sweet if that would be okay, and Sweet said it would.

### **7.5 BSR E1.6-2, electric chain hoists**

Ruling reported that the TSC had approved the public review motion and that he would file the notice to start the public review next week.

### **7.6 BSR E1.6-3, Safe Use of Serially Manufactured Electric Chain Hoists in the Entertainment Industry**

Dan Culhane reported that the task group is still working and will meet tomorrow (March 20). Sapsis asked about how much progress was being made. Culhane said that the task group might have a document for the working group to consider by LDI.

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

Peter Herrmann said that they are meeting tomorrow morning (March 20), and will continue work.

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

No news or action.

**7.9 ANSI E1.15-2006, boom & base assemblies**

No news or action.

**7.10 ANSI E1.21-2006, portable roof systems**

Karl Ruling asked about what are we doing about the International Building Code compliance issue. Jeff Reder of Entertainment Structures Group said that his company is putting together a document explaining how they deal with the IBC.

**7.11 BSR E1.22, fire safety curtain systems**

**7.11.1 Public review progress report**

Karl Ruling reported that the public review had ended March 17 with two people submitting a few comments.

Harvey Sweet said that two-thirds of the comments would be easy to resolve, with the other third needing some more effort. He said he hopes to have recommended comment resolutions for the next Rigging Working Group meeting in July.

**7.11.2 Arup fire modeling project**

Jim Niesel reported that Arup is funding and carrying out a fire modeling project related to the BSR E1.22 project.

Niesel explained that Arup is a global engineering firm, and that one of the things they do is fire engineering. In fact, Arup is one of the biggest employers of fire engineers in the world. The company does internal R&D projects, so he applied for a study of fire in a proscenium theatre, and his request was approved.

Arup's fire engineers will do a computer model of a fire in three different sizes of proscenium theatres: small, medium and large. The modeling will be done with fires in different locations on stage. The models should be completed by the end of May with the results of the analysis finished by September. Then the results will be published.

There was general applause.

**8 New business**

**8.1 Discussion of NFPA 289, 701, and 705**

There was discussion of NPA 289, 701, and 705. No motions were offered.

**8.2 CWA 25**

CWA 25 is now finished, reported Ron Bonner. It should be published in about two months time. He noted that VPLT won't support the section that allows hoists to support loads over people without double brakes.

Bonner reiterated his offer to help the E1.6 task groups that are looking at CWA 25 to gain access to the standards referenced in the document.

**9 Other business and announcements**

**10 Schedule for future meetings**

It was announced that the next meeting is scheduled for Friday, 18 July 2008, 19:00 - 23:00, at Pace University in New York City.

Ted Jones moved that we not meet in New York. The motion was seconded. There was discussion. By a show of hands, three voted in favor, 18 against, and the rest abstaining. The motion failed, so we'll have a meeting in New York as scheduled, but with a speaker phone so those not wishing to go to New York can phone in.

**11 Changes of membership status resulting from lack of attendance.**

The following voters and their alternates have missed the last two consecutive meetings, and will have missed three if they miss this one:

No one

**12 Adjournment**

Dan Culhane moved that the meeting adjourn. The motion was seconded and then approved with a unanimous show of hands. Bill Sapsis declared the meeting adjourned at 20:23.

## Working Group Membership and Contact Information as of 25 April 2008

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	O	G
Andre Broucke	ADB - TTV Technologies	ADB-TTV Group	O	MP
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
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
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	O	G
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Buddy Braille	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
Julie Rogers	City of Phoenix Civic Plaza	City of Phoenix	O	G
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
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
Jake Winkelman	Vortek	Daktronics Inc.	A	CP
Robert Voss	Vortek	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	P	MP
Michael Lichter	Electronic Theatre Controls GmbH	Electronic Theatre Controls	O	MP
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	O	G
Cristina Delboni	Feeling Structures	Feeling Structures	O	MP
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
Joseph Champelli	Fisher Technical Services, Inc.	FTSI	P	CP
Dana Bartholomew	Fisher Technical Services	FTSI	A	CP
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
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
Gian Carlo C. Bartolotti	Ibeam SP / Banco de Eventos	Ibeam SP / Banco de Eventos	O	U
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



Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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
Harvey Sweet	LA ProPoint, Inc.	LA ProPoint, Inc.	P	DR
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
Michael L. Savage, Sr.	Middle Dept. Inspection Agency, Inc.	Middle Dept. Inspection Agency, Inc.	O	G
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR
Todd Petersen	Mixed Productions	Mixed Productions	O	U
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
David Herrmann	Motion Laboratories	Motion Laboratories	A	CP
Peter 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 Defarges	Nexo	Nexo	O	MP
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
Robert A. Grenier Jr.	Ocean State Rigging Systems Inc.	Ocean State Rigging Systems Inc.	O	DR
Joseph Rapier	Parkhill, Smith & Cooper, Inc.	Parkhill, Smith & Cooper, Inc.	O	CP
Ron Bonner	PLASA	PLASA	P	G
Michael Patterson	Pook Diemont & Ohl, Inc.	Pook Diemont & Ohl, Inc.	O	CP
Marc Hendriks	Prolyte	Prolyte	O	MP
Douglas Franz	QVC Network	QVC Network	O	U
Steven Graham	R&M Materials Handling	R&M Materials Handling	P	MP
Joe Ingle	R&M Materials Handling	R&M Materials Handling	A	MP
Scott Mohr	R&R Cases and Cabinets	R&R Cases and Cabinets	O	G
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
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
Rob Stevenson	SEW-Eurodrive, Inc.	SEW-Eurodrive, Inc.	O	MP
Shaun Millington	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.	P	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
Richard J. Nix	Entertainment Structures Group	Steven Schaefer Associates	P	G
Daniel J. Clark	Entertainment Structures Group	Steven Schaefer Associates	A	G
Jeff Reder	Entertainment Structures Group	Steven Schaefer Associates	A	G
Kyle Kusmer	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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Mark Newlin	Texas Scenic Company	Texas Scenic Company	O	DR
Richard C. Mecke	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.	P	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
Keith Bohn	Tomcat USA, Inc.	Vitec Group plc	P	MP
John James	Tomcat USA, Inc.	Vitec Group plc	O	MP
Mitch Clark	Tomcat USA, Inc.	Vitec Group plc	O	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
Robert Dean	ZFX Inc.	ZFX Inc.	O	CP

**Key to codes:**  
 P principal voting member  
 A alternate voting member  
 I individual voting member  
 O observer, non-voting  
 MP mass-market producer interest category  
 CP custom-market producer interest category  
 DR dealer or rental company interest category  
 U user interest category  
 G general-interest interest category