

Minutes
RIGGING WORKING GROUP
Friday, 13 July 2007
Dallas/Ft. Worth Airport Marriott South
Ft. Worth, TX

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

Recording secretary: Karl G. Ruling; ESTA

Members attending:

William Bradburn; Aerial Arts, Inc.; P; U (joined at this meeting with new company)
William Conner; Bill Conner Associates LLC, representing the Amer. Society of Theatre Consultants; P; U
Eugene Leitermann; Theatre Projects Consultants, Inc., representing the Amer. Society of Theatre Consultants; A; G
Jon Lenard; Applied Electronics; P; MP
Charlie Weiner; P; U
Don Dimitroff; Columbus McKinnon Corp.; P; MP
Herb Hart; Columbus McKinnon Corp.; A; MP
Pat Grenfell; Vortek (Daktronics Inc.); P; CP
Jake Winkelman; Vortek (Daktronics Inc.); A; CP (joined at this meeting)
M. Brad Dittmer; Downhome Productions; P; U
Noga Eilon-Bahar; Eilon Engineering Industrial Weighing Systems; P; MP
Rocky Paulson; Stage Rigging, Inc. (Freeman Companies); P; DR
Joseph Champelli; Fisher Technical Services, Inc. (FTSI); P; CP
Dana Bartholomew; Fisher Technical Services (FTSI); A; CP
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
Michael J. Carnaby; Mikan Theatricals; P; DR
Vincent J. Cannavale; Motion Laboratories; P; CP
Peter Herrmann; Motion Laboratories; A; CP
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
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
James Niesel; Theatre Projects Consultants, Inc.; P; G
Jerry Gorrell; Theatre Safety Programs; P; G
John C. Snook; Thermotex Industries Inc.; P; CP (change of voting status at this meeting)
Jeff Wilkowski; Thern, Inc.; P; MP
Adrian Forbes-Black; Total Structures Inc.; P; MP
Keith Bohn; Tomcat USA, Inc. (Vitec Group plc); P; MP (change of voting status at this meeting)
Pete Happe; Walt Disney Imagineering (Walt Disney Company); P; U

Visitor: Roger L. Lattin; IATSE Local 728

1 Opening remarks

The meeting was called to order by Bill Sapsis at 19:04. He thanked everyone for attending and donating their time working on the projects.

2 Attendance and membership

2.1 Introduction of those present

Those present introduced themselves, proceeding in a clockwise direction around the large hollow-center table.

2.2 Circulation of attendance sign-in sheet

A blue attendance sign-in sheet was circulated.

2.3 Call for quorum

Bill Sapsis asked for voters to raise their hands. He counted them, and then announced that a quorum was present and business could be conducted.

2.4 Requirements for membership

Sapsis reminded those present 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. 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

Dan Culhane moved that John Snook and Keith Bohn be returned to principal voting status. The motion was seconded and then approved with a unanimous show of hands.

Karl Ruling asked Bohn if he wanted Tomcat's previous alternates, who were now observers, to become alternates again. Bohn answered, No.

Membership applications had been received from Robert Voss of Vortek (Daktronics, Inc.) applying as an alternate, and Bill Bradburn applying as the principal for Aerial Arts in the user interest category. (A new company for Bradburn; he was formally with Butler University.) Bruce Darden moved that the applications be accepted. The motion was seconded, and then approved with a unanimous show of hands.

Jake Winkleman submitted an application to be another alternate for Vortek. Pat Grenfell moved that Winkleman's application be accepted. The motion was seconded, and then approved with a unanimous show of hands.

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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
William Bradburn	Aerial Arts, Inc.	Aerial Arts, Inc.	P	U
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	U
Eugene Leiternann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A	G
Jon Lenard	Applied Electronics	Applied Electronics	P	MP
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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Pat Grenfell	Vortek	Daktronics Inc.	P	CP
Robert Voss	Vortek	Daktronics Inc.	A	CP
Jake Winkelman	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
Travis Palmer	H & H Specialties Inc.	H & H Specialties Inc.	A	MP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	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
Steven Graham	R&M Materials Handling	KCI Konecranes	P	MP
Hans van der Moolen	Stagemaker Division Europe	KCI Konecranes	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
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
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
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
Shawn Nolan	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
James Niesel	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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Adrian Forbes-Black	Total Structures Inc.	Total Structures 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
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U
		Total votes possible	40	
		Votes by interest category	7	CP
			8	DR
			8	G
			9	MP
			8	U

4 Approval of minutes from the previous meeting

See Rig/2007-2008, file name RIGmin03-2007.pdf

Dan Culhane pointed out some incomplete sentences. Karl Ruling filled them in.

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

5 ESTA declarations

5.1 Anti-trust statement

Bill Sapsis 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."

Karl Ruling, the Technical Standards Manager, held up some of the easy-to-read pamphlets to show that they were readily available. No restraint of trade issues were brought to the attention of the assembly.

5.2 Call for patents

Bill Sapsis 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 patent or copyright issues were brought to the attention of the assembly.

6 Approval of the agenda

Dan Culhane 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, so no action.

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

No news, so no action.

7.3 BSR E1.4, manual rigging systems — Resolutions to James L. Read Jr. letter progress report

Richard Nix reported that he had sent out a draft response to the letter to the task group for comment. Ruling encouraged him to set a deadline for the responses. Projects with no due date are lower priority than any and all projects with a due date.

7.4 BSR E1.6-1, powered winch hoist systems — Public review comment resolution progress report

Harvey Sweet said the task group has been reviewing the basis of the document and the types of machines covered. He says this will lead to a broader but more specific document. The basis of the document is 20 years old, and he thinks this work is bringing it into the modern world.

7.5 BSR E1.6-2, electric chain hoists

Ruling reminded people that BSR E1.6-2 is in public review.

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

Charlie Weiner announced that "serial" in the document title has been changed to "serially" because it modifies "manufactured" rather than "hoists."

Weiner also reported that the task group has decided that control should be broken out of this document and covered in a separate standard. This would be E1.6-4, control of serially manufactured electric chain hoists in the entertainment industry.

Charlie Weiner moved that work start on a standard for the control of serially manufactured electric chain hoists in the entertainment industry, and that a task group be formed to write a first draft. The motion was seconded. Karl Ruling argued for using the same numbering system, since this is a continuation of the original BSE E1.6 powered rigging project. That would make it BSR E1.6-4. The motion was accepted with a show of hands.

Hearing no objection, Bill Sapsis appointed the following task group:

Peter Herrmann
Vincent Cannavalle
Noga Eilon-Bahar
Jon Lenard
Dana Bartholomew
Eddie Kramer.

Sapsis appointed Peter Herrmann as the task group leader.

Charlie Weiner said that the E1.6-3 task group is making progress, and that by LDI the task group will have the hoist classifications established.

Mike Garl asked when a document should be ready for the working group to review. Weiner said that he thought they would have something by LDI.

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

No news, so no action.

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

No news, so no action.

7.9 ANSI E1.21-2006, portable roof systems

Adrian Forbes-Black reported that some customers are struggling with the seismic requirements. Total Structures manufactures their roofs to the requirements of Zone 4, which is most of California. However, some customers are dealing with the International Building Code, which doesn't have broad seismic zones, but seismic zones that vary by ZIP code. This vastly complicates compliance with the requirements to consider seismic loading.

Keith Bohn volunteered to reconstruct the E1.21 task group to discuss the problem.

7.10 BSR E1.22, fire safety curtain systems public review comment resolutions

Harvey Sweet reported that 42 comments were offered during the public review, and that the task group had drafted resolutions for 24 of them. They are not able to resolve within the group what to do with the deemed to comply or examples of systems. The document E1-22RequestForGuidance.pdf lays out the arguments with the examples or "deemed to comply." There are two significant questions at hand:

1. Should the examples, as they are currently titled, continue under the heading of "design examples" or should the examples be re-titled "deemed to comply designs?"
2. Should the examples or the re-titled "deemed to comply designs" be contained in the primary body of the document, currently Section 12 of 1-12, or should the examples or "deemed to comply designs" be placed in an Annex to the body of the document.

Bill Conner said that he liked providing "deemed to comply" examples, but is not sure that the traditional designs generally considered "deemed to comply" actually do comply. Richard Nix concurred with Conner's assessment of the traditional designs, saying that he is concerned about calling anything "deemed to comply" when we don't know if these traditional designs actually do comply. For that reason, he would like to show "examples," and not claim that they are deemed to comply.

Peter Scheu explained that a lot of the problem with saying things comply or not is the two pounds per square foot pressure differential written into the specification. That's enough pressure on a fire safety curtain to create force enough to cause things to bend, but things don't necessarily fail at that point.

Kimberly Corbett said that Schuler Shook would like to have examples in the annex. That position will allow them to be phased out. There were several people who argued for the inclusion of the examples to help ease the standard into the market, but that the examples should be phased out as the standard gains recognition. Jim Niesel said that the design examples in the document confused many people who commented in public review.

There was extensive discussion.

Jerry Gorrell moved that the examples stay in the body of the document. The motion was seconded. With a show of hands, 9 voted in favor, 14 against, and the rest abstained. The motion failed.

Richard Nix moved that the examples be moved to an annex and not be called "deemed to comply." The motion was seconded. With a show of hands, 13 voted in favor, 10 against, and the rest abstained. The motion was accepted by a simple majority.

8 New business

8.1 Honoring and thanking task groups. How shall we do this?

There was discussion in which John Snook suggested a press release for the local papers, Peter Scheu suggested a reception be held, Chris Kaiser suggested that the ESTA board members should occasionally personally thank people for their work, and Adrian Forbes-Black suggested that a logo could be created and participants allowed to use it to identify them as contributors to the technical standards program. No motions were offered, and no action taken.

8.2 Signage

Chris Kaiser asked for people interested in working on a standard for signage on counterweight rigging. There was discussion of the value of this project. Kaiser reiterated that she was simply asking for interest at this time. Interested parties should contact her.

9 Other business and announcements

None.

10 Schedule for future meetings

It was announced that the next working group meeting is scheduled for Wednesday, 14 November 2007, 19:00 to 23:00 at the Rosen Plaza Hotel, 9700 International Drive, Orlando, Florida.

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:

Steven Graham and Hans van der Moolen representing KCI Konecranes

Bill Sapsis announced that the above people are now observers, since they have not met the minimum attendance requirements.

12 Adjournment

Keith Bohn moved that the meeting adjourn. The motion was seconded and then approved with a show of hands. Bill Sapsis declared the meeting adjourned at 21:31.

Working Group Membership and Contact Information as of 24 July 2007

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
Eugene Leitermann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A	G
Jim Fletcher	American Sling Company, Inc.	American Sling Company, Inc.	O	MP
Jon Lenard	Applied Electronics	Applied Electronics	P	MP
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	O	MP
Dennis J. Lopez	Automatic Devices Co.	Automatic Devices Co.	O	MP
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
Eric Todd	BML Inc.	BML Inc.	O	MP
Paul Tardue	BML Inc.	BML Inc.	O	MP
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
Mark M. Witteveen	Chicago Flyhouse Inc.	Chicago Flyhouse Inc.	O	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
Robert Voss	Vortek	Daktronics Inc.	A	CP
Jake Winkelman	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
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
Paul Brady	Grand Stage Company, Inc.	Grand Stage Company, Inc.	O	U
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Travis Palmer	H & H Specialties Inc.	H & H Specialties Inc.	A	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
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
John Kaes	John Kaes	John Kaes	O	U
John R. Burgess	John R. Burgess	John R. Burgess	O	U
Edward Paget	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
Christopher Purpura	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
Hans van der Moolen	Stagemaker Division Europe	KCI Konecranes	O	MP
Steven Graham	R&M Materials Handling	KCI Konecranes	O	MP
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
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 Deffarges	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
Olaf Soot	Olaf Soot Associates	Olaf Soot Associates	O	CP
Joseph Rapier	Parkhill, Smith & Cooper, Inc.	Parkhill, Smith & Cooper, Inc.	O	CP
Ron Bonner	PLASA	PLASA	P	G
Michael Akrep	Polar Focus, Inc.	Polar Focus, Inc.	O	MP
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
Scott Mohr	R&R Cases and Cabinets	R&R Cases and Cabinets	O	G

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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
Heinz Siller	RST Prsentations-systeme	RST Prsentations-systeme	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
Luigi Sbalzarini	Selvolina SNC	Selvolina SNC	O	MP
Shaun Millington	SEW-Eurodrive, Inc.	SEW-Eurodrive, Inc.	O	MP
Rob Stevenson	SEW-Eurodrive, Inc.	SEW-Eurodrive, Inc.	O	MP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Jon Lagerquist	South Coast Repertory	South Coast Repertory	O	U
Jerrold S. Tiers	St. Louis Music Inc.	St. Louis Music Inc.	O	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
Shawn Nolan	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
Richard C. Mecke	Texas Scenic Company	Texas Scenic Company	O	CP
Mark Newlin	Texas Scenic Company	Texas Scenic Company	O	CP
Alan Broadhurst	The Broadhurst Partnership	The Broadhurst Partnership	O	P
James Niesel	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
Doug Recher	Total Structures, Inc.	Total Structures, Inc.	O	MP
Peter Hind	Anthony Ward Partnership Ltd.	Total Structures, Inc.	O	MP
Elmer Veith	Total Structures - Eastern US Sales Office	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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Mitch Clark	Tomcat USA, Inc.	Vitec Group plc	O	MP
John James	Tomcat USA, Inc.	Vitec Group plc	O	MP
Eckart Steffens	SOUNDLIGHT	VPLT	O	G
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	MP	mass-market producer interest category	G	general-interest interest category
A	alternate voting member	CP	custom-market producer interest category		
I	individual voting member	DR	dealer or rental company interest category		
O	observer, non-voting	U	user interest category		