

Minutes
Rigging Working Group
Friday, 18 July 2008
Pace University
New York, NY

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

Recording secretary: Karl G. Ruling; ESTA

Members attending: Donald A. Hoffend, Jr.; Avista Designs, LLC; P; G (change of voting status at this meeting)
Buddy Braile; Bestek Lighting & Staging; O; U
Don Dimitroff; Columbus McKinnon Corp.; P; MP
Reid Neslage; H & H Specialties Inc.; P; MP
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Kent H. Jorgensen; IATSE Local 80; P; G
Mike Garl; James Thomas Engineering, Inc.; P; MP
Bob Medve; Limelight Productions, Inc.; A; DR
Louis Bradfield; O; U
Peter Herrmann; Motion Laboratories; A; CP
David Herrmann; Motion Laboratories; A; CP
Shawn Sack; Mountain Productions Inc.; P; DR
Tim Hansen; Oasis Stage Werks; P; DR
Ron Bonner; PLASA; P; G
Dan Culhane; SECOA; P; CP
Nathan Wells; Stage Technologies; P; MP
Daniel J. Clark; Entertainment Structures Group (Steven Schaefer Associates); A; G
Stephen G. Surratt; Texas Scenic Company; P; DR
Steve Sweet; Theatre Projects Consultants, Inc.; A; G (joined at this meeting)
Jerry Gorrell; Theatre Safety Programs; P; G
Jeff Wilkowski; Thern, Inc.; P; MP

Visitor: Wendy Holt; AMPTP

1 Opening remarks

Bill Sapsis called the meeting to order at 19:00. He welcomed all to New York City, and thanked people for attending.

2 Attendance and membership

2.1 Introduction of those present

Those present introduced themselves.

2.2 Circulation of attendance sign-in sheet

A blue attendance sign-in sheet was circulated and those present were instructed to find their names, if they are members, and to check the "present" box. Visitors were instructed to sign in on the visitor sheets at the back.

2.3 Call for quorum

Sapsis asked for a show of hands of voters. He counted them and announced that a quorum 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 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

The following applications had been received:

Steve Sweet; Theatre Projects Consultants; alternate; general interest

Donald Hoffend, Jr.; Avista Designs LLC; principal; general interest (currently an observer member)

Dan Culhane moved that the applications be accepted. The motion was seconded. The motion was approved by a unanimous show of hands.

The consensus body during the period of this meeting, including those not present, was:

Name	Company	Representing	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
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
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
Robert Voss	Vortek	Daktronics Inc.	A	CP
Jake Winkelman	Vortek	Daktronics Inc.	A	CP
Edward A. (Ted) Paget	Vortek Rigging Division	Daktronics Inc.	A	CP
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
Noqa 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
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
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Spencer Brown	Oasis Stage Werks	Oasis Stage Werks	A	DR

Name	Company	Representing	Voting status	Int. cat.
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
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
Steve Sweet	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	A	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 possible by interest category	8	CP
			10	MP
			8	DR
			9	U
			10	G

4 Approval of minutes from the previous meeting

See Rig/2008-2006, file name RIGmin03-2008.pdf

Eddie Kramer moved that the draft minutes of the March 2008 meeting be approved as written. The motion was seconded. The motion was approved with a show of hands, with all present voting in favor, except for one abstention.

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 one of the easy-to-read pamphlets to show that they are 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 protected intellectual property was 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 unanimous show of hands.

7 Old business

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

It's published. Any news or action needed?

None.

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

It's published. Any news or action needed?

None.

7.3 BSR E1.4, manual rigging systems

Progress report on public review comment resolutions.

The task group leader Richard Nix was not present, but he had submitted a report by email, which was read aloud by Karl Ruling:

Date: Mon, 07 Jul 2008 18:55:14 -0400
From: "Richard J. Nix"
To: Karl Ruling <kruling@esta.org>, Bill Sapsis <bill@sapsis-rigging.com>
Subject: E1.4 update for RWG meeting

Hi guys,

I won't be traveling to New York. It's simply too expensive for the net reward, so - for the record - here's my E1.4 task group update for the RWG meeting:

I've received proposed resolutions from the Task Group, and am compiling them. I expect they'll be finished and back out to the task group by the RWG meeting; I'm only saying that because if anything new or different happens between now and then, I'll copy you in so you will have current info for the meeting.

For now, I'm the delay, as finding time in the evenings has been a little difficult of late (typical summer schedules)...but no worries. It'll get done.

Email me if you have questions or concerns. Otherwise, things in general seem unusually quiet, but please do advise if there are any issues I need to address (that I might not be aware of).

Ciao guys.

--

Richard J. Nix
Performance Systems Integration, Inc.

Bill Sapsis urged that work be done on the comment resolutions so that there is the possibility that the E1.4 project might be done by the time of the 2009 USITT conference

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

Public review comment resolution progress report.

Task group leaders Harvey Sweet, Chris Kaiser, and Shawn Nolan were not present, but many task group members were, so there was a discussion of the progress being made, but no formal report. Steve Surratt said that he and Harvey Sweet have been sending text back and forth for the testing section.

7.5 BSR E1.6-2, electric chain hoists

Report on public review comments. See Smmry_E1-6-2FrthRvwCmmnts.pdf

The consensus was that the original E1.6-2 task group should make a first pass at drafting a comment resolution document.

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

Don Dimitroff talked about the recent webconference used by the task group. They had a strict agenda and schedule, and it was very effective.

Karl Ruling read the motion from the TSC related to the financing of webconference meetings:

Steve Terry moved that task groups shall use whatever webcasting or teleconferencing meeting means they want at their cost. The service shall not be provided by the TSP.

The motion was seconded. The motion was approved with a unanimous show of hands.

There was a discussion of reducing our carbon footprint by holding more electronic meetings rather than face-to-face meetings that require travel. Bill Sapsis urge people to try it to see what works. As they refine the method, this will help others to use it.

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

Peter Herrmann reported that the task group had met that morning, and gotten some good work done. He predicted that by USITT the task group will have a version suitable for consideration by the working group for public review.

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

It's published. Any news or action needed?

None.

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

It's published. Any news or action needed?

None.

7.10 ANSI E1.21-2006, portable roof systems

It's published. Any news or action needed? Do we need to beef up its seismic load guidance? If so, who will do it?

There was a discussion of the IBC and its interpretation. Jerry Gorrell says it could use a little clearer wording. He suggested we submit proposal. Bill Conner said October is the deadline for proposals. No motions were made and no action items were generated from this discussion.

7.11 BSR E1.22, fire safety curtain systems

7.11.1 Public review comment resolution progress report

Neither Chris Kaiser nor Harvey Sweet were present. No report was submitted.

7.11.2 Arup fire modeling project progress report

Jim Niesel was not present, but his PowerPoint presentation was shown. (See ARUP_FireSafetyInTheaters.pdf.)

There was a discussion of the request in the presentation: "We could use more input on quantities of typical or even single show specific 'burnable' materials." Dan Culhane expressed surprise that Arup lacks data, since he had introduced Jim Niesel to Ben Sammler at Yale. Bill Conner pointed out that there is other fuel backstage besides scenery, for example, costumes and quick-change booths. Conner suggested that Steve Ehrenberg may be a source of more information. Jerry Gorrell volunteered to contact designers at IATSE Local 829 to see if they have information, and said that he will post a note in USITT's *Sightlines*. Tim Hansen said he and Bob Medve have links to high schools and may be able to get information there. Sapsis said that Jim Niesel is asking for information from all of us, and urged people to email whatever information they have to him.

Bill Conner moved that we express our gratitude to Jim Niesel and Arup for the work on this fire modeling project. The motion was seconded and approved by acclamation.

8 New business

None.

9 Other business and announcements

None.

10 Schedule for future meetings

Bill Sapsis announced that the next meeting is scheduled for Wednesday, 22 October 2008, 19:00 to 23:00, at Harrah's Las Vegas. The January meeting will be on Saturday, January 24, at the Marriott Solana in Westlake, Texas.

11 Changes of membership status resulting from lack of attendance.

Sapsis announced that the following voters and their alternates had missed the last two consecutive meetings and now had missed this one, thus missing three consecutive meetings, so they are now moved to observer status:

Noga Eilon-Bahar; Eilon Engineering Industrial Weighing Systems
John C. Snook; Thermotex Industries
Keith Bohn; Vitec Group

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 20:12.

Working Group Membership and Contact Information as of 6 August 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	P	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
Robert Voss	Vortek	Daktronics Inc.	A	CP
Jake Winkelman	Vortek	Daktronics Inc.	A	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
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
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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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
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 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
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
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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Eugene Leitermann	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	G
Steve Sweet	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	A	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
Mitch Clark	Tomcat USA, Inc.	Vitec Group plc	O	MP
John James	Tomcat USA, Inc.	Vitec Group plc	O	MP
Keith Bohn	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