

Minutes
RIGGING WORKING GROUP
Wednesday, 13 February 2002
Hyatt Regency New Orleans
New Orleans, LA

Chairman: Mike Garl; James Thomas Engineering, Inc.; principal; producer

Recording secretary: Karl G. Ruling; ESTA

Members attending: William Conner; Schuler & Shook Inc. representing Amer. Society of Theatre Consultants; principal; user
Andrew T. Martin; ATM Group, Inc.; principal; producer
Ted Jones; Chicago Spotlight, Inc.; observer; user
Don Dimitroff; CM Lodestar; principal; producer
M. Brad Dittmer; Downhome Productions; principal; user
Reid Neslage; H & H Specialties Inc.; principal; producer
Delbert Hall; Hall Associates Inc.; observer; user
Edwin S. Kramer; IATSE, Local 1; principal; user
Rodney F. Kaiser; J.R. Clancy Inc.; principal; producer
Tray Allen; James Thomas Engineering, Inc.; alternate; producer
John R. Burgess; observer; user
Baer Long; MGM Grand Hotel Casino (MGM-Mirage Inc.); principal; user
Kent H. Jorgensen; MPS Grips, Local 80; observer; gen. interest
Robert A. Grenier Jr.; Ocean State Rigging Systems Inc.; principal; user
Richard J. Nix; On Location Lighting Systems Inc.; principal; gen. interest
Bill Sapsis; Sapsis Rigging, Inc.; principal; user
Dan Culhane; SECOA; principal; producer
Larry Lutz; Texas Scenic Company; principal; producer
F. Robert Bauer; Theatrix Inc.; observer; user
Keith Bohn; Tomcat USA, Inc.; principal; producer
Doug Recher; Total Structures, Inc.; alternate; producer
Hans van der Moolen; Verlinde N.L. (Verlinde Spa. France); principal; producer

Visitors: Jerald Kraft; Secoa
Bill Maiman; ESTA

1 Opening remarks

Mike Garl called the meeting to order at 19:00. He welcomed all to New Orleans.

2 Attendance and membership

2.1 Introduction of those present

Garl asked those present to introduce themselves, which they did, proceeding in a counter-clockwise direction around the hollow square table.

2.2 Call for quorum

Mike Garl noted that we have both a quorum and enough people to pass a motion with a supermajority.

2.3 Requirements for membership

Mike Garl explained that working group membership is open to all who are materially affected by the work of the group. However, voting members must vote on letter ballots and attend meeting regularly to maintain their voting rights. If a voting member and his alternate together miss three ballots or meetings in a row, their voting status will be changed to observer.

3 Processing of new membership requests

Mike Garl read the following new applications for working group membership:

Robert A. Grenier Jr.; Ocean State Rigging Systems, Inc.; principal, user

Marc Hendriks; Prolite; observer; producer

Gian Carlo C. Bortolotti; Ibeam SP / Banca de Eventos; observer; user

Rinus Bakker; Rhino Rigs B.V.; observer; general interest

Bill Sapsis moved that the applications be accepted. The motion was seconded. The motion was accepted unanimously by a show of hands.

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

Name	Company	Representing	Voting status	Interest cat.
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P	U
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P	U
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	P
Don Dimitroff	CM Lodestar	Columbus McKinnon	P	P
Wally Blount	CM Lodestar	Columbus McKinnon	A	P
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
Dean Hart	Stage Rigging, Inc.	Freeman Companies	P	U
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	A	U
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	P
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	P
Edwin S. Kramer	IATSE, Local 1	I.A.T.S.E. Local 1	P	U
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	P
Jack Suesse	J.R. Clancy, Inc.	J.R. Clancy, Inc.	A	P
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A	P
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	P
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	P
Nevin Kleege	Kleege Industries	Kleege Industries	P	U
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U
Baer Long	MGM Grand Hotel Casino	MGM-Mirage Inc.	P	U
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	U
Robert A. Grenier Jr.	Ocean State Rigging Systems Inc.	Ocean State Rigging Systems Inc.	P	U
Richard J. Nix	On Location Lighting Systems Inc.	On Location Lighting Systems Inc.	P	G
Tim Cox	PLASA	PLASA	P	G
Tony Douglas-Beveridge	PLASA	PLASA	A	G
Michael Akrep	Polar Focus, Inc.	Polar Focus, Inc.	P	P
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Dan Culhane	SECOA	SECOA	P	P
Larry Lutz	Texas Scenic Company	Texas Scenic Company	P	P
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	P
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	P
Mark Newlin	Tomcat USA, Inc.	Tomcat USA, Inc.	A	P
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	P
Peter Johns	Total Structures, Inc.	Total Structures, Inc.	P	P
Ian Coles	Total Structures, Inc.	Total Structures, Inc.	A	P
Peter Hind	Total Fabrications Ltd.	Total Structures, Inc.	A	P
Doug Recher	Total Structures, Inc.	Total Structures, Inc.	A	P
Hans van der Moolen	Verlinde N.L.	Verlinde Spa. France	P	P
			26 voting members	12 P 11 U 3 G

4 Approval of the minutes from the previous meeting

Brad Dittmer moved that the draft minutes be accepted as written. The motion was seconded. By show of hands, the motion was accepted without dissent.

5 ESTA declarations

5.1 Anti-trust statement

The following was read aloud by Mike Garl:

"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 \$100,000 and imprisoned for up to three years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

Bill Maiman waved some of the easy-to-read pamphlets above his head to demonstrate their availability. Bill Conner asked for a copy.

No anti-trust issues were brought to the attention of the assembly.

5.2 Call for patents

The following was read aloud by Mike Garl:

"ESTA intends to publish no standard that contains protected intellectual property, unless that property can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent disclosures to implement this intent. ESTA does not conduct patent searches and does not warrant that its standards contain no protected intellectual property.

"In keeping with the open disclosure policy, I ask if anyone present wishes to notify the working group of the existence of a patent that might protect material in a standard being developed by the working group. You need not be the holder of the patent in order to notify the working group of its existence."

No issues were brought to the attention of the assembly.

6 Approval of agenda

Mike Garl suggested that we add an item 8.2, Oregon stage lifts. Eddie Kramer moved that the agenda be accepted with this addition. The motion was seconded. The motion was approved without dissension by a show of hands.

7 Old business

7.1 E1.4 - Manual Rigging Systems

Ruling reported that he had distributed the public review comments to the working group. He asked if the task group had a report on the resolution of those comments. Rodney Kaiser asked task group members to get together with him to work out meeting times to work out the resolutions or to find another way forward.

7.2 E1.6 – Powered Rigging Systems

Ruling reported that Tom Young had told him that the task group had gotten through a third of the public review comments. The task group will meet Friday to do some more work.

7.3 E1.7 - Recommended Practice for Flying Performers

The document is now in public review, Ruling reported. Ruling made a plea for electronic copies of comments. paper copies have to be retyped or scanned with OCR software. Both take time and do not enhance accuracy.

7.4 E1.8 - Speaker Enclosures Rigging Standard

Andrew Martin moved that the comment resolutions sent to the working group (Rig/2001-2024) be accepted. The motion was seconded. No one offered any discussion or comments. By roll call ballot the vote was:

Name	Company	Representing	Voting status	Int. cat.	Accept	Accept in principle	Accept in part	Reject	Abstain
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P	U					
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P	U	X				
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	P	X				
Don Dimitroff	CM Lodestar	Columbus McKinnon	P	P	X				
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U	X				
Dean Hart	Stage Rigging, Inc.	Freeman Companies	P	U					
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	A	U					
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	P	X				
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	P					
Edwin S. Kramer	IATSE, Local 1	I.A.T.S.E. Local 1	P	U	X				
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	P	X				
Mike Garl	James Thomas Engineering	James Thomas Engineering	P	P	X				
Nevin Kleege	Kleege Industries	Kleege Industries	P	U					
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U					
Baer Long	MGM Grand Hotel Casino	MGM-Mirage Inc.	P	U	X				
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	U					
Robert Grenier	Ocean State Rigging	Ocean State Rigging	P	U	X				
Richard J. Nix	On Location Lighting Systems	On Location Lighting Systems	P	G	X				
Tim Cox	PLASA	PLASA	P	G					
Tony Douglas-Beveridge	PLASA	PLASA	A	G					
Michael Akrep	Polar Focus, Inc.	Polar Focus, Inc.	P	P					
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U	X				
Dan Culhane	SECOA	SECOA	P	P	X				
Larry Lutz	Texas Scenic Company	Texas Scenic Company	P	P					X
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G					
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	P	X				
Doug Recher	Total Structures, Inc.	Total Structures, Inc.	A	P	X				
Hans van der Moolen	Verlinde N.L.	Verlinde Spa. France	P	P	X				
					16	0	0	0	1

The motion was accepted with a supermajority of 16 out of a total consensus body of 26 voting in favor.

Andrew Martin then moved that the draft standard that incorporates the approved resolutions (Rig/1997-2021r7) be sent to another public review. The motion was seconded. By roll call ballot, the vote was:

Name	Company	Representing	Voting status	Int. cat.	Accept	Accept in principle	Accept in part	Reject	Abstain
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P	U					
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P	U	X				
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	P	X				
Don Dimitroff	CM Lodestar	Columbus McKinnon	P	P	X				
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U	X				
Dean Hart	Stage Rigging, Inc.	Freeman Companies	P	U					
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	A	U					
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	P	X				
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	P					
Edwin S. Kramer	IATSE, Local 1	I.A.T.S.E. Local 1	P	U	X				
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	P	X				
Mike Garl	James Thomas Engineering	James Thomas Engineering	P	P	X				
Nevin Kleege	Kleege Industries	Kleege Industries	P	U					
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U					
Baer Long	MGM Grand Hotel Casino	MGM-Mirage Inc.	P	U	X				
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	U					
Robert Grenier	Ocean State Rigging	Ocean State Rigging	P	U	X				
Richard J. Nix	On Location Lighting Systems	On Location Lighting Systems	P	G	X				
Tim Cox	PLASA	PLASA	P	G					
Tony Douglas-Beveridge	PLASA	PLASA	A	G					
Michael Akrep	Polar Focus, Inc.	Polar Focus, Inc.	P	P					
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U	X				
Dan Culhane	SECOA	SECOA	P	P	X				
Larry Lutz	Texas Scenic Company	Texas Scenic Company	P	P	X				
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G					
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	P	X				
Doug Recher	Total Structures, Inc.	Total Structures, Inc.	A	P	X				
Hans van der Moolen	Verlinde N.L.	Verlinde Spa. France	P	P	X				
					17	0	0	0	0

The motion was approved with a supermajority of 17 out of a total consensus body of 26 voting in favor.

7.5 E1.15 – Boom & base standard

Richard Nix gave Karl Ruling, the Technical Standards Manager, a disk containing a new version of the draft standard (Rig/1998-2032r6). He asked Ruling to review the document and to give him some guidance on it.

Mike Garl urged anyone interested in the project to help Richard Nix. Since people said by their votes at the last meeting that this is an important project, they should show this with their help. Nix also asked for help, stating that additional sets of eyes are needed for editing.

7.6 Stage roofs proposal

Keith Bohn moved that this project become an American National Standards project. The motion was seconded. By show of hands, 16 voted in favor, with one abstention (the Chairman, as is traditionally the case), and none opposed. Ruling announced that this would have the alphanumeric designation of BSR E1.21, Temporary Ground-Supported Overhead Structures Used To Cover Stage Areas and Support Equipment in the Production of Outdoor Entertainment Events.

7.7 NFPA 80, FDW-AAA technical committee

Ruling had some copies to distribute of the NFPA 80 Report on Proposals, which showed that text describing fire curtains had been offered and voted on in the FDW-AAA committee. Bill Conner reported on the sequence of events that resulted in this text being voted on by the committee. According to Conner, John Degenkolb (non-voting Member Emeritus) sent the text of the UBC standard dealing with fire curtains to the committee chairman on August 22 and suggested it should be part of the NFPA 80 standard. This submittal was one day before the committee meeting, so the committee had not reviewed the text before the meeting. Committee actions in NFPA meetings are confirmed by subsequent letter ballots to the entire committee, however, the text that was then submitted to the larger committee in the letter ballot period was not what was described at the committee meeting, which was a procedural irregularity. In the letter ballot, the committee did not support the committee proposal for adopting the text, but the proposed text and the proposal to adopt it is now open to comments from the public.

Bill Conner moved that we create a project to write an American National Standard for fire curtains. The motion was seconded. The motion was accepted by a unanimous show of hands.

Dan Culhane moved that a task group be formed to work on the fire curtain project. The motion was seconded. The motion was accepted without dissension by a show of hands. Mike Garl appointed Bill Conner to be the acting head of the task group.

There was discussion of the need to involve manufacturers of fire curtains and others in the fire protection community in this project.

8 New business

8.1 Powder coating truss – possible addition to ANSI E1.2-1999

Garl reported that Keith Bohn had brought this issue to his attention. Powder coatings are frequently applied as an aftermarket feature by someone other than the manufacturer. The process involves heating the truss to temperatures close to those that will affect the strength of the alloy. Temperatures that are too high can weaken the truss so that it will not perform as stated by the original truss manufacture.

There was a discussion of the powder coating process and how we might address this issue. Other surface finishing processes, such as sandblasting off old paint, might also affect truss strength.

After this discussion, Mike Garl stated that the consensus seems to be that E1.2 task group should be reactivated to address this issue.

8.2 Oregon stage lift standard.

The proposed Oregon Stage and Orchestra Lift Code was discussed.

Bill Sapsis moved that Karl Ruling send copies of this proposed code to members of the Rigging Working Group for informational purposes. The motion was seconded. The motion was accepted by a show of hands with no dissension. The consensus was that this is distribution is informational and that no recommendation from the working group either for or against the proposed code is being made. People may comment on the proposed code if they wish however they wish.

9 Other business

Garl said that ESTA standards are available from USITT here at the USITT Stage Expo. He urged people to buy them and use them.

10 Schedule for future meetings

Mike Garl announced that the next meeting is scheduled for May 3 at 19:00 at the Dallas/Ft. Worth Marriott South in Ft. Worth. This is not the hotel we have used so often before, so members were cautioned to make sure they get on the correct courtesy van. The right one is the white van, not the red van.

The following meeting will be July 26, again at 19:00. It also will be at the Dallas/Ft. Worth Marriott South in Ft. Worth.

11 Changes of membership status resulting from lack of attendance.

Voting members who had missed two consecutive meetings prior to this one: None.

12 Adjournment

Bill Sapsis moved that the meeting adjourn. The motion was seconded. The motion was approved by acclamation. Mike Garl declared the meeting adjourned at 21:03.

Working Group Membership as of the End of the 13 February 2002 Meeting

Name	Company	Representing (This is the sort field)	Voting status	Int. cat.
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P	U
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P	U
Jim Fletcher	American Sling Company, Inc.	American Sling Company, Inc.	O	P
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	P
Lee J. Bloch	Bloch Design Group Inc.	Bloch Design Group Inc.	O	G
Eric Todd	BML Inc.	BML Inc.	O	P
Paul Tardue	BML Inc.	BML Inc.	O	P
Joachim Stoecker	CAMCO GmbH	CAMCO GmbH	O	P
Mark M. Witteveen	Chicago Flyhouse Inc.	Chicago Flyhouse Inc.	O	U
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	U
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	P
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	P
Ron Fogel	Creative Realities, Inc.	Creative Realities, Inc.	O	G
Jason Friedman	Creative Realities, Inc.	Creative Realities, Inc.	O	G
Harry Donovan	Donovan Rigging, Inc.	Donovan Rigging, Inc.	O	U
Wes Jenkins	Down Stage Right Industries	Down Stage Right Industries	O	P
M. Brad Dittmer	Downhome Productions - Springfield, MO	Downhome Productions	P	U
Dean Hart	Stage Rigging, Inc.	Freeman Companies	P	U
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	A	U
David M. Campbell	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	P
Delbert Hall	Hall Associates Inc.	Hall Associates Inc.	O	U
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	P
Edwin S. Kramer	IATSE, Local 1	I.A.T.S.E. Local 1	P	U
Gian Carlo C. Bartolotti	Ibeam SP / Banco de Eventos	Ibeam SP / Banco de Eventos	O	U
Perry Langenstein	International Theatre Consultants	International Theatre Consultants	O	G
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	P
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A	P
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A	P
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	P
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	P
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	Jay O. Glerum & Associates, Inc.	O	U
Chuck McClelland	Jeamar Winches Inc.	Jeamar Winches Inc.	O	P
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
Ray Robins	Kansas Stage Inc.	Kansas Stage Inc.	O	U
Nevin Kleege	Kleege Industries	Kleege Industries	P	U
Ian J. Warhurst	Lite Structures (GB) Ltd.	Lite Structures (GB) Ltd.	O	P
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U
Kevin Dallmeyer	Mandalay Resort Group	Mandalay Resort Group	O	U
Baer Long	MGM Grand Hotel Casino	MGM-Mirage Inc.	P	U
Charles E. Gorgen	Midwest Crane Corp.	Midwest Crane Corp.	O	P
Kent H. Jorgensen	MPS Grips, Local 80	MPS Grips, Local 80	O	G
Ted Hickey	OAP Audio Products	OAP Audio Products	O	P
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	U
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	O	U
Robert A. Grenier Jr.	Ocean State Rigging Systems Inc.	Ocean State Rigging Systems Inc.	P	U
Frederick L. Smith	Olaf Soot Associates	Olaf Soot Associates	O	P
Olaf Soot	Olaf Soot Associates	Olaf Soot Associates	O	P
Richard J. Nix	On Location Lighting Systems Inc.	On Location Lighting Systems Inc.	P	G
Joseph Rapier	Parkhill, Smith & Cooper, Inc.	Parkhill, Smith & Cooper, Inc.	O	P
Patrick Stansfield	Patrick Stansfield Assoc., Inc.	Patrick Stansfield Assoc., Inc.	O	U
Peter Letzelter-Smith	Peter Letzelter-Smith	Peter Letzelter-Smith	O	U
Billy Phillips	Phillips Rigging	Phillips Rigging	O	P
Tim Cox	PLASA	PLASA	P	G
Tony Douglas-Beveridge	PLASA	PLASA	A	G
Michael Akrep	Polar Focus, Inc.	Polar Focus, Inc.	P	P
Marc Hendriks	Prolyte	Prolyte	O	P
Robert Barbagallo	Proximo Inc.	Proximo Inc.	O	U
Douglas Franz	QVC Network	QVC Network	O	U

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
Michael Reed	Reed Rigging, Inc.	Reed Rigging, Inc.	O	U
Rinus Bakker	Rhino Rigs B.V.	Rhino Rigs B.V.	O	G
Rikki Newman	Rikki Newman	Rikki Newman	O	U
Randall W. A. Davidson	Risk International & Associates, Inc.	Risk International & Associates, Inc.	O	U
Roo Dunn	Pennsylvania Convention Center	Roo Dunn	O	U
Heinz Siller	RST Präsentationssysteme	RST Präsentationssysteme	O	G
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Dan Culhane	SECOA	SECOA	P	P
Luigi Sbalzarini	Selvolina SNC	Selvolina SNC	O	P
Jon Lagerquist	South Coast Repertory	South Coast Repertory	O	U
Jerrold S. Tiers	St. Louis Music Inc.	St. Louis Music Inc.	O	P
Larry Lutz	Texas Scenic Company	Texas Scenic Company	P	P
Richard C. Mecke	Texas Scenic Company	Texas Scenic Company	O	P
Alan Broadhurst	The Broadhurst Partnership	The Broadhurst Partnership	O	P
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Ed Nicholas	Theatrical Lighting Systems, Inc.	Theatrical Lighting Systems, Inc.	O	U
F. Robert Bauer	Theatrix Inc.	Theatrix Inc.	O	U
John Van Lennep	Theatrix Inc.	Theatrix Inc.	O	U
Thomas Paterson	Thomas Paterson	Thomas Paterson	O	G
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	P
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	P
Mark Newlin	Tomcat USA, Inc.	Tomcat USA, Inc.	A	P
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	P
Peter Johns	Total Structures, Inc.	Total Structures, Inc.	P	P
Ian Coles	Total Structures, Inc.	Total Structures, Inc.	A	P
Peter Hind	Total Fabrications Ltd.	Total Structures, Inc.	A	P
Doug Recher	Total Structures, Inc.	Total Structures, Inc.	A	P
Hans van der Moolen	Verlinde N.L.	Verlinde Spa. France	P	P
Eckart Steffens	SOUNDLIGHT	VPLT	O	G
Peter Happe	Walt Disney Imagineering	Walt Disney	O	U
Warren A. Bacon	Warren A. Bacon	Warren A. Bacon	O	U
		26 voting companies and organizations		12 P 11 U 3 G
		50 observing companies and organizations		15 P 24 U 11 G

Voting Status

- P Principal voting representative for a company or organization
- A Alternate voting representative for a company or organization
- I Individual representing no organization other than himself or herself
- O Observer; non-voting

Interest Categories

- P Producer (manufacturer) of rigging equipment
- U User of rigging equipment
- G General interest in rigging equipment