

Minutes RIGGING WORKING GROUP

Wednesday, 16 March 2005
Fairmont Royal York Hotel
Toronto, ON, Canada

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

Recording secretary: Karl G. Ruling; ESTA

Members attending: William Conner; Bill Conner Associates LLC, representing ASTC; P; U
Ted Jones; Chicago Spotlight, Inc.; P; U
Don Dimitroff; Columbus McKinnon Corp.; P; MP
M. Brad Dittmer; Downhome Productions; P; U
Rocky Paulson; Stage Rigging, Inc. (Freeman Companies); O; DR
Reid Neslage; H & H Specialties Inc.; P; MP
Jeffrey Hoffend; Hoffend & Sons, Inc.; P; CP
Damon Atwood; Hoffend & Sons; A; CP (joined at this meeting)
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Kent H. Jorgensen; IATSE Local 80; P; G (change of voting status at this meeting)
Rodney F. Kaiser; J.R. Clancy Inc.; P; CP
Thomas S. Young; J.R. Clancy Inc.; A; CP
Mike Garl; James Thomas Engineering, Inc.; P; MP
Tray Allen; James Thomas Engineering, Inc.; A; MP
William Beautyman; Limelight Productions, Inc.; P; DR
Harvey Sweet; LVH Entertainment Systems (LVH Electric, Inc.); P; DR
Michael J. Carnaby; Mikan Theatricals; P; DR
Tim Hansen; Oasis Stage Werks; P; DR
Richard J. Nix; Performance Systems Integration; P; G
Ron Bonner; PLASA; P; G
Peter A. Scheu; Scheu Consulting Services; P; G
Dan Culhane; SECOA; P; CP
Shawn Nolan; Entertainment Structures Group (Steven Schafer Associates); P; G
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR (change of voting status at this meeting)
Mark Newlin; Texas Scenic Company; P; CP
Jeff Wilkowski; Thern, Inc.; P; MP
Hans van der Moolen; Stagemaker Division Europe (Verlinde Spa. France); P; MP
Carlos Garcia; R&M Materials Handling (Verlinde Spa. France); A; MP (joined at this meeting)

Visitor: Roger L. Lattin, IATSE Local 728

1 Opening remarks

The meeting was called to order at 19:00 by Bill Sapsis. He welcome all present to the Rigging Working Group meeting.

2 Attendance and membership

2.1 Introduction of those present

Those present were asked to introduce themselves, which they did.

2.2 Circulation of attendance sign-in sheet

Karl Ruling asked those present to sign-in on the blue attendance form, which was circulated while self introductions were offered.

2.3 Call for quorum

Bill Sapsis asked voting members to raise a hand. After a quick count, Sapsis announced that a quorum was present.

2.4 Requirements for membership

Sapsis reminded those in attendance that membership is open to all who are affected by the work of the group. 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:

Michael Dileso; IATSE Local 481; observer; user
Damon Atwood; Hoffend and Sons; alternate; custom-market
Carlos Garcia; R&M Materials Handling; alternate to Hans van der Moolen (same parent company); mass-market producer

In addition, the following observer members requested to be moved to principal voting status:

Kent Jorgensen; IATSE Local 80, user
Christine Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; dealer/rental

Richard Nix moved that the applications be accepted. The motion was seconded. The motion was approved with a unanimous show of hands.

[Robin Crews of Wrightson, Johnson, Haddon & Williams, Inc. had been changed from principal to observer at his request on 2/4/2005.]

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

Name	Company	Representing	Voting status	Int. cat.
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	U
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	MP
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Howard R. Ott	D.E.O. Associates, Inc.	D.E.O. Associates, Inc.	P	G
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
David M. Campbell	Geiger Engineers	Geiger Engineers	P	G
Timothy Mills	Geiger Engineers	Geiger Engineers	A	G
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	CP
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A	CP
Damon Atwood	Hoffend & Sons	Hoffend & Sons, Inc.	A	CP
Edwin S. Kramer	IATSE Local 1	IATSE Local 1	P	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	P	G
Michael Keppler	Bogen	IFF	P	MP
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	CP
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A	CP

Name	Company	Representing	Voting status	Int. cat.
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A	CP
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G
Ron Bonner	PLASA	PLASA	P	G
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P	G
Dan Culhane	SECOA	SECOA	P	CP
Jerald Kraft	SECOA	SECOA	A	CP
Shawn Nolan	Entertainment Structures Group	Steven Schafer Associates	P	G
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Mark Newlin	Texas Scenic Company	Texas Scenic Company	P	CP
Larry Lutz	Texas Scenic Company	Texas Scenic Company	A	CP
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
Tim Franklin	Theta-Consulting	Theta-Consulting	P	G
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
Peter Hind	Anthony Ward Partnership Ltd.	Total Structures, Inc.	P	MP
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	MP
Carlos Garcia	R&M Materials Handling	Verlinde Spa. France	A	MP
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U
			35	Total
			9	MP
			5	CP
			5	DR
			6	U
			10	G

4 Approval of minutes from the previous meeting

There was a discussion of 7.4 in the minutes of the 14 January 2005 meeting. That said:

"Don Dimitroff reported that a set of comment resolutions have been drafted, but the task group does not feel that the resulting draft standard is very effective. Therefore, the task group asks to split chain hoists out to a second document. This motion was seconded. There was discussion. By a show of hands: one opposed, the rest in favor; the motion carried.

"Don Dimitroff also announced that Chris Kaiser has taken over as the task group leader."

In discussion it was determined that this was an accurate report of what was said at the meeting, but is not an accurate report of what the task group had decided. The report of the task group for this current meeting will give a more accurate rendition of the state of the E1.6 project.

Dan Culhane moved that the minutes be accepted as written. The motion was seconded. The motion was approved by a show of hands with one voting against, one abstaining, and the rest, the majority, voting in favor.

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 held up a few of the easy to read pamphlets. No restraint of trade issues were brought to the attention of the assembly.

5.2 Call for patents (read aloud to the assembly by Bill Sapsis)

"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 issues were identified by the assembly.

6 Approval of agenda

Kent Jorgensen asked that we discuss NFPA 80 as part of the fire curtain report.

Dan Culhane moved that the agenda so amended be approved. The motion was seconded and then approved by an unanimous show of hands.

7 Old business

7.1 E1.1 — Wire rope ladders — Ruling

Ruling reported that it is in public review through 26 April 2005.

7.2 E1.2 — Aluminum trusses and towers revised

Ruling reported that the ESTA Board letter ballot to accept the new version of E1.2 as an American National Standard had closed on March 10 and that the Board had voted unanimously in favor of the motion.

7.3 E1.4 — Manual rigging systems

Ruling reported that the TSC had approved the public review.

7.4 E1.6 — Powered rigging systems

Harvey Sweet said that the actions that were reported at the last meeting were actually taken by the task group earlier today. The document has been split into two parts: chain hoist rigging and powered winch hoist systems. Chain hoists will be lead by Wally Blount and the winch section will be lead by Harvey Sweet. Chris Kaiser is working as secretary for both.

Sweet distributed scope statements. Sweet intends to have draft documents of both parts to the working group in time for the ETS-LDI meeting.

The scopes of the two sections are as follows:

BSR E1.6-1

This standard establishes requirements for the design, manufacture, inspection, and maintenance of powered winch hoist systems for overhead lifting and suspension of loads in auditoria, arenas, theatres, convention centers, places of worship, theme parks, and similar venues, where the failure of such systems could endanger life or limb.

This standard applies only to the hoisting system. This standard does not apply to the building structure or to the attachment of the hoisting system to the building structure or to the suspended loads. Systems for flying people are specifically excluded from this standard.

BSR E1.6-2

This standard establishes requirements for the design, manufacture, inspection, and maintenance of electric chain hoists for overhead lifting and suspension of loads in auditoria, arenas, theatres, convention centers, places of worship, theme parks, and similar venues, where the failure of such systems could endanger life or limb.

This standard applies only to the hoisting system. This standard does not apply to the building structure or to the attachment of the hoisting system to the building structure or to the suspended loads. Systems for flying people are specifically excluded from this standard.

7.5 E1.8 — Speaker enclosures

Ruling reported that the TSC vote had voted to approve it as an American National Standard. The motion now needs to go to the ESTA Board.

7.6 E1.15 – Boom & base standard

Ruling reported that it is in public review through April 26.

7.7 E1.21 – Stage roofs — Ruling reported that the TSC had approved the public review.

7.8 E1.22 – Fire safety curtain systems comment

7.8.1 Harvey Sweet moved that the draft comment resolutions (Rig/2005-2008) be accepted. The motion was seconded. The motion was approved with a show of hands, with 19 voting in favor, none opposed, and the rest abstaining. This was a supermajority.

Bill Conner noted the following errata in the document sent to the task group.

2.7 insert "system" to make it a "fire safety curtain system."

3.2.2 delete see annex note

3.3.2 delete last sentence with the period in the middle

10.4.1 delete the second shall.

Harvey Sweet moved that the revised draft standard (with the errata) shall be accepted as a fair implementation of the resolutions and offered for public review. The motion was seconded. The motion was decided by a roll call ballot, with 22 of a voting body of 35 voting Yes, and one voting Abstain. Shawn Nolan arrived after the roll call vote.

Name	Company	Representing	Voting status	Int. cat.	Vote
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	U	yes
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	MP	
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U	yes
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP	yes
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP	
Howard R. Ott	D.E.O. Associates, Inc.	D.E.O. Associates, Inc.	P	G	
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U	yes
David M. Campbell	Geiger Engineers	Geiger Engineers	P	G	
Timothy Mills	Geiger Engineers	Geiger Engineers	A	G	
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP	abstain
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	CP	yes
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A	CP	
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	yes
Kent Jorgensen	IATSE Local 80	IATSE Local 80	P	U	yes
Michael Keppler	Bogen	IFF	P	MP	
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	CP	yes
Jack Suesse	J.R. Clancy, Inc. (NC)	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	yes
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP	
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR	yes
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR	yes
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR	yes
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR	yes
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G	yes
Ron Bonner	PLASA	PLASA	P	G	yes
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U	yes
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P	G	yes
Dan Culhane	SECOA	SECOA	P	CP	yes
Jerald Kraft	SECOA	SECOA	A	CP	
Shawn Nolan	Entertainment Structures Group	Steven Schafer Associates	P	G	
Chris Kaiser	Syracuse Scenery and Stage Lighting	Syracuse Scenery and Stage Lighting	P	DR	yes
Mark Newlin	Texas Scenic Company	Texas Scenic Company	P	CP	yes
Larry Lutz	Texas Scenic Company	Texas Scenic Company	A	CP	
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	yes
Tim Franklin	Theta-Consulting	Theta-Consulting	P	G	

Name	Company	Representing	Voting status	Int. cat.	Vote
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G	
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP	
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP	
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP	
Peter Hind	Anthony Ward Partnership Ltd.	Total Structures, Inc.	P	MP	
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	MP	yes
Carlos Garcia	R&M Materials Handling	Verlinde Spa. France	A	MP	
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U	

Votes by interest category:

Interest category	Yes	Yes with comments	No with reasons	Abstain	Total possible
MP	4			1	9
CP	4				5
DR	5				5
U	6				7
G	3				9

7.8.2 NFPA 80

Harvey Sweet expressed an interest in writing a public review response that would be put forward as the response of the working group. This was discussed.

Kent Jorgensen moved that the Rigging Working Group make a formal response to NFPA 80 when it is offered for public review. The motion was seconded. By a show of hands, 20 voted in favor, one against, one and the chairman abstained.

Harvey Sweet suggested that the task group will draft a response, that Karl will send out a ballot with short response time, and a simple majority will decide the approval of the response. The consensus of the working group was that this would be an appropriate course of action, and the Technical Standards Manager agreed.

Harvey Sweet moved that a report by the working group chairman of the actions taken at the TSC meeting affecting the interests of the Rigging Working Group be a standing item on the RWG agenda. The motion was seconded. All in favor except for one vote against.

8 New business—Affirmation of new co-chairman

Bill Sapsis announced that the TSC had appointed Kent Jorgensen to serve co-chairman, subject to ratification by the working group.

Dan Culhane moved that Jorgensen's appointment be ratified. The motion was seconded and then approved by a unanimous show of hands.

9 Other business

9.1 ICC report

Bill Conner reported on his testimony on behalf of ESTA at the recent ICC hearings (22 February through 4 March in Cincinnati, Ohio). Gregory J. Cahanin of Cahanin Fire & Code Consulting had proposed (G73-04/05) that in clause 410.3.4 of the *International Building Code* the criterion for when a proscenium wall with a two-hour fire rating is required be changed from having a stage height of greater than 50 feet to having a space above the proscenium opening exceeding 20 feet. This would have mandated fire-rated proscenium walls in many theatres that are not required to have them now. Cahanin also proposed definitions for legitimate stage, arena stage, and theater-in-

the-round. Conner spoke against the proposal. It was defeated. The proposed "arena" definition had audience seating on three-sides.

9.2 ETCP

Mike Garl held up the ETCP candidate handbook and announced that applications are being taken for the computer-based testing. A person also needs to have education and practical experience to qualify to take the exam. All this is laid out in the handbook.

Bill Sapsis said that developing the test questions was extraordinarily difficult, much harder than anyone expected.

Rocky Paulson said that this project has really come a long way, from an idea to a reality.

10 Schedule for future meetings

Ruling announced that the next meeting will be at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth (not Dallas), Texas on the evening of 29 July 2005.

11 Changes of membership status resulting from lack of attendance.

Principals (and alternates) who had missed the previous two meetings:

Tim Franklin; Theta Consulting

Pete Happe; Walt Disney Imagineering

Bill Sapsis announced that these people were not at this meeting, and so had missed three consecutive meetings and failed to meet the minimum attendance requirements for voters. They would therefore be moved to observer voting status.

12 Adjournment

Dan Culhane moved that the meeting adjourn. The motion was seconded. The motion was approved on a voice vote. Bill Sapsis declared the meeting adjourned at 20:40.

Rigging Working Group Membership and Contact Information as of 28 March 2005

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
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
Jim Fletcher	American Sling Company, Inc.	American Sling Company, Inc.	O	MP
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	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	Blue Sky Design, Ltd.	Blue Sky Design, Ltd.	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
Mark M. Witteveen	Chicago Flyhouse Inc.	Chicago Flyhouse Inc.	O	U
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Wally Blount	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.	P	G
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
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	O	G
Thomas Reaoch	RC Consultoria e Representação Ltda.	Feeling Structures	O	MP
Hamilton Nunes Callegari	Feeling Structures	Feeling Structures	O	MP
Ben Hayes	Freedom Flying	Freedom Flying	O	G
Dean Hart	Stage Rigging, Inc.	Freeman Companies	O	U
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	O	DR
David M. Campbell	Geiger Engineers	Geiger Engineers	P	G
Timothy Mills	Geiger Engineers	Geiger Engineers	A	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
Delbert Hall	Hall Associates Inc.	Hall Associates Inc.	O	U
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	CP
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A	CP
Damon Atwood	Hoffend & Sons	Hoffend & Sons, Inc.	A	CP
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 Di Ieso	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
Michael Keppler	Bogen	IFF	P	MP
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	CP
Jack Suesse	J.R. Clancy, Inc. (NC)	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
Nevin Kleege	Kleege Industries	Kleege Industries	O	U
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Louis Bradfield	Louis Bradfield	Louis Bradfield	O	U

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR
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
Bradford A. Kegel	National Production Services Inc.	National Production Services Inc.	O	U
David Gisbourne	Newtex Industries, Inc.	Newtex Industries, Inc.	O	CP
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	U
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
John Jones	PCM/Pfaff Silberblau Ltd.	PCM/Pfaff Silberblau Ltd.	O	DR
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G
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
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
Heinz Siller	RST Präsentationssysteme	RST Präsentationssysteme	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
Dan Culhane	SECOA	SECOA	P	CP
Jerald Kraft	SECOA	SECOA	A	CP
Luigi Sbalzarini	Selvolina SNC	Selvolina SNC	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
Roger Barrett	Star Events Group Ltd.	Star Events Group Ltd.	O	DR
Shawn Nolan	Entertainment Structures Group	Steven Schafer Associates	P	G
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Reuben Goldberg	Technic Services	Technic Services	O	U
Mark Newlin	Texas Scenic Company	Texas Scenic Company	P	CP
Richard C. Mecke	Texas Scenic Company	Texas Scenic Company	O	CP
Larry Lutz	Texas Scenic Company	Texas Scenic Company	A	CP
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	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
Thomas Paterson	Thomas Paterson	Thomas Paterson	O	G
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
Peter Hind	Anthony Ward Partnership Ltd.	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
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	MP
Carlos Garcia	R&M Materials Handling	Verlinde Spa. France	A	MP
JoAnna Kamorin-Lloyd	Vincent Lighting Systems	Vincent Lighting Systems	O	U

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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	O	U
Warren A. Bacon	Warren A. Bacon	Warren A. Bacon	O	U
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Wrightson, Johnson, Haddon & Williams, Inc.	O	G
Ray Robins	XS Lighting, Inc.	XS Lighting, Inc.	O	CP
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