

**Minutes**  
**RIGGING WORKING GROUP**

Wednesday, 19 November 2003  
Sheraton World Resort  
Orlando, Florida

**Chairman:** Mike Garl; James Thomas Engineering, Inc.; P; MP

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

**Members attending:** Baer Long; Ninja Rigging (Act 1 Rigging Inc.); P; G  
William Conner; Schuler & Shook Inc., representing the Amer. Society of  
Theatre Consultants; P; U  
Ted Jones; Chicago Spotlight, Inc.; O; U  
Don Dimitroff; Columbus McKinnon Corp.; P; MP  
M. Brad Dittmer; Downhome Productions; P; U  
F. Robert Bauer; F.R. Bauer & Associates, LLC; P; G  
Thomas Reaoch; Feeling Structures; O; MP (joined at this meeting)  
Hamilton Nunes Callegari; Feeling Structures; O; MP (joined at this meeting)  
Rocky Paulson; Stage Rigging, Inc. (Freeman Companies); O; DR  
David M. Campbell; Geiger Engineers; P; G  
Reid Neslage; H & H Specialties Inc.; P; MP  
Jeffrey Hoffend; Hoffend & Sons, Inc.; P; CP  
Michael Keppler; Bogen (IFF); P; MP  
Rodney F. Kaiser; J.R. Clancy Inc.; P; CP  
William Beautyman; Limelight Productions, Inc.; P; DR  
Harvey Sweet; LVH Entertainment Systems (LVH Electric, Inc.); P; DR  
Richard J. Nix; Performance Systems Integration; P; G  
Ron Bonner; PLASA; P; G  
Randall W. A. Davidson; Risk International & Associates, Inc.; O; U  
Bill Sapsis; Sapsis Rigging, Inc.; P; U  
Peter A. Scheu; Scheu Consulting Services; P; G  
Dan Culhane; SECOA; P; CP  
Larry Lutz; Texas Scenic Company; P; CP  
Jerry Gorrell; Theatre Safety Programs; P; G  
John C. Snook; Thermotex Industries Inc.; P; CP  
Jeff Wilkowski; Thern, Inc.; P; MP  
Tim Franklin; Theta-Consulting; P; G  
Brian Dowd; TMB; P; CP  
Keith Bohn; Tomcat USA, Inc.; P; MP  
Peter Hind; Total Structures, Inc.; P; MP  
Pete Happe; Walt Disney Imagineering (Walt Disney Company); P; U  
Robin Crews; Wrightson, Johnson, Haddon & Williams, Inc.; P; G

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

**Visitors:** JoAnna Kamorin-Lloyd, Independent Production Consultant and Manager  
Joel A. Guerra; Texas Scenic Co.  
Brude Darden; Rigging Innovators  
Eddie Raymond; IATSE ocal 16  
Patrick J. Bash; IATSE Local 720  
Olan Cottrill; Staging Productions Inc.  
Michael Carnaby; Mikan Theatricals

**1 Opening remarks**

Mike Garl called the meeting to order at 19:04. He pointed out the emergency exits and suggested that each person take note of which exit is closest.

**2 Attendance and membership**

A trillium attendance sign-in sheet was circulated, and Mike Garl explained how to fill it in.

**2.1 Introduction of those present**

Mike Garl asked those present to introduce themselves. They did so.

**2.2 Call for quorum** (34 voting members: 12 needed for quorum, 18 to pass supermajority votes)

Mike Garl noted that a quorum was present.

**2.3 Requirements for membership**

Garl reminded the assembly 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**

Applications had been received from the following people and companies. Mike Garl read the applications aloud.

Thomas Reaoch of Feeling Structures applied as an observer in the mass-market producer category

Hamilton Nunes Callegari of Feeling Structures applied as an observer in the mass-market producer category

Mylan Lester of Creation Logics Ltd. applied as an observer in the user category

David Grisbourne of Newtex Industries, Inc. applied as an observer in the general interest category

Charles E. Gorgen, an independent consultant, applied as an observer in the general interest category

Roger Barrett of Star Events Group Ltd. applied as a principal voting member in the dealer or rental business category. Barrett was not present at the meeting.

Bill Sapsis moved that the applications be accepted, with the exception that Roger Barrett be accepted as an observer. The motion was seconded. The motion was accepted by a unanimous show of hands.

Peter Hind asked to be accepted as a principal voting member again for Total Structures. Dan Culhane moved that Peter Hind be accepted as a principal voting member. The motion was seconded. The motion was approved by a unanimous show of hands.

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

Name	Company	Representing	Voting status	Interest categories				
				MP	CP	U	G	DR
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	P				1	
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P			1		
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P			1		
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	1				
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	1				
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A					
M. Brad Dittmer	Downhome Productions	Downhome Productions	P			1		
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	P				1	
David M. Campbell	Geiger Engineers	Geiger Engineers	P				1	
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	1				
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P		1			
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A					
Edwin S. Kramer	I.A.T.S.E., Local 1	I.A.T.S.E. Local 1	P			1		
Michael Keppler	Bogen	IFF	P	1				
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P		1			
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A					
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A					
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	1				
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A					
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P					1
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P					1
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P					1
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P				1	
Ron Bonner	PLASA	PLASA	P				1	
Tony Douglas-Beveridge	PLASA	PLASA	A					
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P			1		
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P				1	
Dan Culhane	SECOA	SECOA	P		1			
Jerald Kraft	SECOA	SECOA	A					
Larry Lutz	Texas Scenic Company	Texas Scenic Company	P		1			
Michael Patterson	Theatre Projects Consultants, Inc.	Theatre Projects Consultants	P			1		
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P				1	
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P		1			
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	1				
Tim Franklin	Theta-Consulting	Theta-Consulting	P				1	
Richard D. Thompson	Thompson Associates	Thompson Associates	P				1	
Brian Dowd	TMB (NJ)	TMB	P		1			
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	1				
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A					
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A					
Peter Hind	Total Structures	Total Structures	P	1				
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	1				
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P			1		
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Wrightson, Johnson, Haddon & Williams, Inc.	P				1	
			35	9	6	7	10	3

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

Dan Culhane moved that the draft minutes be accepted as written. The motion was seconded. The motion was approved with a unanimous show of hands.

#### 5 ESTA declarations

##### 5.1 Anti-trust statement

Mike Garl 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 \$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."

Karl Ruling held up some of the pamphlets. No restraint of trade issues were brought to the attention of the assembly by anyone present

## 5.2 Call for patents

Mike Garl read the following statement aloud to the assembly:

"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 patent or other intellectual property issues were brought to the attention of the assembly.

## 6 Approval of agenda

Approval of the draft agenda as written was moved by Dan Culhane. The motion was seconded. The motion was approved by a unanimous show of hands.

## 7 Old business

### 7.1 E1.2 – Aluminum trusses and towers revision

Mike Garl relinquished the chairman position to Bill Sapsis, since Mike Garl is intimately involved with this project.

There was a brief discussion of a redundant "be" in clause 4.5.2 of the revised version of the draft standard.

#### 7.1.1 Consideration of suggested comment resolutions

Mike Garl moved that the proposed resolutions (document number Rig/2003-2025) be accepted. The motion was seconded. By a show of hands the motion was accepted by a supermajority of the working group, with 27 voting in favor, none opposed, and only the chairman abstaining out of a total voting body (including those not present) of 35.

#### 7.1.2 Consideration of the revised E1.2 standard

Dan Culhane moved that we accept Rig/2002-2019r3 (which is the same as revision 2 but without "be" in 4.5.2) and send it to another public review. The motion was seconded. The motion was accepted by a supermajority on a roll call ballot, with 28 in favor, none against, no abstentions out of a total voting body of 35.

Name	Company	Representing	Voting status	Interest category					Yes	No	Abstain
				MP	CP	U	G	DR			
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	P				1		1		
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P			1					
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P			1			1		
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	1							
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	1					1		

Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A																
M. Brad Dittmer	Downhome Productions	Downhome Productions	P			1							1						
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	P					1					1						
David M. Campbell	Geiger Engineers	Geiger Engineers	P							1									
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	1														1	
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P			1												1	
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A																
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P					1											
Michael Keppler	Bogen	IFF	P			1												1	
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P					1										1	
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A																
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A																
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	1														1	
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A																
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P										1	1					
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P										1	1					
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P										1						
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P									1		1					
Ron Bonner	PLASA	PLASA	P									1		1					
Tony Douglas-Beveridge	PLASA	PLASA	A																
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P							1								1	
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P									1		1					
Dan Culhane	SECOA	SECOA	P							1								1	
Jerald Kraft	SECOA	SECOA	A																
Larry Lutz	Texas Scenic Company	Texas Scenic Company	P						1									1	
Michael Patterson	Theatre Projects Consultants, Inc.	Theatre Projects Consultants	P									1							
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P										1					1	
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P							1								1	
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	1														1	
Tim Franklin	Theta-Consulting	Theta-Consulting	P											1				1	
Richard D. Thompson	Thompson Associates	Thompson Associates	P											1					
Brian Dowd	TMB (NJ)	TMB	P									1						1	
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	1														1	
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A																
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A																
Peter Hind	Total Structures	Total Structures	P	1														1	
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	1															
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P															1	
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Wrightson, Johnson, Haddon & Williams, Inc.	P											1				1	
				35	9	6	7	10	3	28	0	0							

By interest category, this is:

- 7 of 9 mass-market producers voting in favor, none against, and no abstentions
- 5 of 6 custom-market producers voting in favor, none against, and no abstentions
- 4 of 7 users voting in favor, none against, and no abstentions
- 9 of 10 general interest voting in favor, none against, and no abstentions
- 3 of 3 dealer or rental companies voting in favor, none against, and no abstentions

## 7.2 E1.4 – Manual rigging systems

Ruling reported that the public review had closed on November 11 with a good number of comments and objections having been received. He apologized for not having the comments collated in time for this meeting.

## 7.3 E1.6 – Powered rigging systems

Rod Kaiser reported that the task group would meet tomorrow (November 20) and continue working on the resolutions.

## 7.4 E1.7 - Recommended practice for flying performers

### 7.4.1 Consideration of suggested resolutions

Mike Garl asked twice if there were any motions anyone wanted to offer in regard to the suggested comment resolutions offered by the task group. No motions were offered.

### 7.4.2 Consideration of the revised draft E1.7 standard

No motions were offered in regard to the revised draft BSR E1.7 standard (Rig/1997-2004r13) Mike Garl announced that further work or discussion on BSR E1.7 would be tabled until the next meeting.

## 7.5 E1.8 - Speaker enclosures rigging standard

Karl Ruling reported that the public review had closed on November 11 with a several comments and objections having been received, but fewer than were received for BSR E1.4. He apologized for not having the comments collated in time for this meeting.

## 7.6 E1.15 – Boom & base standard

### 7.6.1 Report on resolution acceptance vote

Dan Culhane moved that we accept the second set of comment resolutions (Rig/2003-2015r3), the ones supporting draft standard revision 10, and to set aside the first set. The motion was seconded. The motion was approved with a unanimous show of hands.

### 7.6.2 Consideration of the revised draft E1.15 standard

Richard Nix moved that the Rig/1998-2032r10 version of BSR E1.15 (boom and base assemblies) document go to public review. The motion was seconded. The motion was accepted by a supermajority on a roll ballot.

Name	Company	Representing	Voting status	Interest category					Yes	No	Abstain
				MP	CP	U	G	DR			
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	P				1		1		
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P			1					
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P			1			1		
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	1							
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	1					1		
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A								
M. Brad Dittmer	Downhome Productions	Downhome Productions	P			1			1		
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	P				1		1		
David M. Campbell	Geiger Engineers	Geiger Engineers	P				1		1		
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	1					1		
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P		1				1		
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A								
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P			1					
Michael Keppler	Bogen	IFF	P	1					1		
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P		1				1		
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A								
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A								
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	1					1		
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A								
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P					1	1		
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P					1	1		
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P					1			
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P				1		1		
Ron Bonner	PLASA	PLASA	P				1		1		
Tony Douglas-Beveridge	PLASA	PLASA	A								
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P			1			1		
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P				1		1		

Dan Culhane	SECOA	SECOA	P		1					1		
Jerald Kraft	SECOA	SECOA	A									
Larry Lutz	Texas Scenic Company	Texas Scenic Company	P		1					1		
Michael Patterson	Theatre Projects Consultants, Inc.	Theatre Projects Consultants	P			1						
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P				1			1		
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P		1					1		
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	1						1		
Tim Franklin	Theta-Consulting	Theta-Consulting	P				1			1		
Richard D. Thompson	Thompson Associates	Thompson Associates	P				1					
Brian Dowd	TMB (NJ)	TMB	P		1					1		
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	1						1		
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A									
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A									
Peter Hind	Total Structures	Total Structures	P	1						1		
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	1								
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P			1				1		
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Wrightson, Johnson, Haddon & Williams, Inc.	P				1			1		
				35	9	6	7	10	3	28	0	0

By interest category, this is:

- 7 of 9 mass-market producers voting in favor, none against, and no abstentions
- 5 of 6 custom-market producers voting in favor, none against, and no abstentions
- 4 of 7 users voting in favor, none against, and no abstentions
- 9 of 10 general interest voting in favor, none against, and no abstentions
- 3 of 3 dealer or rental companies voting in favor, none against, and no abstentions

#### 7.7 E1.21 – Stage roofs standard

Keith Bohn moved that BSR E1.21, Entertainment Technology — Temporary Ground-Supported Overhead Structures Used to Cover the Stage Areas and Support Equipment in the Production of Outdoor Entertainment Events (Rig/2002-2003r4) be sent to a first public review. The motion was seconded. There was discussion of the document, and Dan Culhane pointed out some editorial errors, and logical inconsistencies. The document was modified with the consensus of the task group and the working group, and a version 4 was created to be voted on for public review. Since this is a first public review, the question must be decided by letter ballot.

#### 7.8 E1.22 – Fire safety curtain systems

Bill Conner reported that the task group is continuing to work on comment resolutions. He noted that the task group had another meeting tomorrow morning (November 20).

#### 7.9 Chain motor connector report

Brian Dowd apologized for not having his report ready for this meeting.

### 8 New business

The working group discussed ANSI E1.1-1999 and whether it should be reaffirmed, revised, or withdrawn (The standard was approved by ANSI on 6 September 1999.)

Brad Dittmer moved that we start the process of reaffirming E1.1 and that it be sent to public review for affirmation. The motion was seconded. Unanimous roll call ballot.

Name	Company	Representing	Voting status	Interest category					Yes	No	Abstain	
				MP	CP	U	G	DR				
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	P				1			1		
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P			1						
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P			1				1		
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	1								
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	1						1		
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A									

M. Brad Dittmer	Downhome Productions	Downhome Productions	P			1			1			
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	P			1			1			
David M. Campbell	Geiger Engineers	Geiger Engineers	P			1			1			
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	1					1			
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P		1				1			
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A									
Edwin S. Kramer	I.A.T.S.E, Local 1	I.A.T.S.E. Local 1	P			1						
Michael Keppler	Bogen	IFF	P	1					1			
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P		1				1			
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A									
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A									
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	1					1			
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A									
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P						1	1		
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P						1	1		
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P						1			
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P					1	1			
Ron Bonner	PLASA	PLASA	P					1	1			
Tony Douglas-Beveridge	PLASA	PLASA	A									
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P			1			1			
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P					1	1			
Dan Culhane	SECOA	SECOA	P		1				1			
Jerald Kraft	SECOA	SECOA	A									
Larry Lutz	Texas Scenic Company	Texas Scenic Company	P		1				1			
Michael Patterson	Theatre Projects Consultants, Inc.	Theatre Projects Consultants	P			1						
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P					1	1			
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P		1				1			
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	1					1			
Tim Franklin	Theta-Consulting	Theta-Consulting	P					1	1			
Richard D. Thompson	Thompson Associates	Thompson Associates	P					1				
Brian Dowd	TMB (NJ)	TMB	P		1				1			
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	1					1			
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A									
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A									
Peter Hind	Total Structures	Total Structures	P	1					1			
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	1								
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P			1			1			
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Wrightson, Johnson, Haddon & Williams, Inc.	P					1	1			
				35	9	6	7	10	3	28	0	0

By interest category, this is:

- 7 of 9 mass-market producers voting in favor, none against, and no abstentions
- 5 of 6 custom-market producers voting in favor, none against, and no abstentions
- 4 of 7 users voting in favor, none against, and no abstentions
- 9 of 10 general interest voting in favor, none against, and no abstentions
- 3 of 3 dealer or rental companies voting in favor, none against, and no abstentions

Dan Culhane moved that E1.1 be accepted as an American National Standard as currently written. The motion was seconded. This motion shall be decided by letter ballot within the working group, with the ballot period to run concurrently with the public review. Any negative public review comments or reasons will be recirculated to the working group.

## 9 Other business

Keith Bohn noted that the portable stage roof task group meeting scheduled for tomorrow will not be held.



Randy Davidson complained about the crowded room and demanded that a larger room be provided for the next meeting. Mike Garl thanked him for his concern and said that we would work to anticipate the size of the crowd better.

**10 Schedule for future meetings**

Mike Garl told the group that the next meeting is scheduled for the evening of Friday, 16 January 2004 at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, Texas. The following meeting will be at the Westin Long Beach in Long Beach, CA, on Wednesday, 17 March 2004. The summer meeting back at the Dallas/Ft. Worth Airport Marriott South will be on the evening of 16 July.

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

There were no changes: all the voting members in danger of losing voting status attended the meeting.

**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 20:24.

### Rigging Working Group Membership as of 2003-12-5

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	P	G
Andre Broucke	ADB - TTV Technologies	ADB-TTV Group	O	MP
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	P	U
Andy Sutton	AFX UK Ltd.	AFX UK Ltd.	O	U
William Conner	Schuler & Shook Inc.	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
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.	O	U
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Mylan Lester	Creation Logics Ltd.	Creation Logics Ltd.	O	U
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	G
Wes Jenkins	Down Stage Right Industries	Down Stage Right Industries	O	CP
M. Brad Dittmer	Downhome Productions - Springfield, MO	Downhome Productions	P	U
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	P	G
Thomas Reaach	Feeling Structures	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
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
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
Gian Carlo C. Bartolotti	Ibeam SP / Banco de Eventos	Ibeam SP / Banco de Eventos	O	U
Michael Keppler	Bogen	IFF	P	MP
Perry Langenstein	International Theatre Consultants	International Theatre Consultants	O	G
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A	CP
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	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
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR
Kevin Dallmeyer	Mandalay Resort Group	Mandalay Resort Group	O	U
Michael L. Savage, Sr.	Middle Dept. Inspection Agency, Inc.	Middle Dept. Inspection Agency, Inc.	O	G
Kent H. Jorgensen	MPS Grips, Local 80	MPS Grips, Local 80	O	G
Bradford A. Kegel	National Production Services Inc.	National Production Services Inc.	O	U
David Gisbourne	Newtex Industries, Inc.	Newtex Industries, Inc.	O	CP
Tracy Nunnally	Northern Illinois University	Northern Illinois University	O	U
Ted Hickey	OAP Audio Products	OAP Audio Products	O	MP
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	O	U
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	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
Patrick Stansfield	Patrick Stansfield Assoc., Inc.	Patrick Stansfield Assoc., Inc.	O	U
John Jones	PCM/Pfaff Silberblau Ltd.	PCM/Pfaff Silberblau Ltd.	O	DR
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G
Peter Letzelter-Smith	Peter Letzelter-Smith	Peter Letzelter-Smith	O	U
Tony Douglas-Beveridge	PLASA	PLASA	A	G
Ron Bonner	PLASA	PLASA	P	G
Michael Akrep	Polar Focus, Inc.	Polar Focus, Inc.	O	MP
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
Roo Dunn	Pennsylvania Convention Center	Roo Dunn	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
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	O	G
Reuben Goldberg	Technic Services	Technic Services	O	U
Deborah Sperry	Tent Tec	Tent Tec & Sperry Events, Inc.	O	MP
Richard C. Mecke	Texas Scenic Company	Texas Scenic Company	O	CP

Larry Lutz	Texas Scenic Company	Texas Scenic Company	P	CP
Alan Broadhurst	The Broadhurst Partnership	The Broadhurst Partnership	O	P
Michael Patterson	Theatre Projects Consultants, Inc.	Theatre Projects Consultants	P	U
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	P	G
Thomas Paterson	Thomas Paterson	Thomas Paterson	O	G
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G
Brian Dowd	TMB (NJ)	TMB	P	CP
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP
Ian Coles	Total Structures, Inc.	Total Structures, Inc.	O	MP
Peter Hind	Total Structures, Inc.	Total Structures, Inc.	P	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
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
Melvin Wierenga	Wierenga & Assoc.	Wierenga & Assoc.	O	DR
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Wrightson, Johnson, Haddon & Williams, Inc.	P	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
- 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