

Minutes
Rigging Working Group
Wednesday, 20 October 2010
Las Vegas Hilton
Paradise Road
Las Vegas, NV

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

Recording secretary: Karl G. Ruling; ESTA

Members attending:

Woody Pyeatt; A V Pro, Inc.; P; DR
Ethan William Gilson; ALPS (Advanced Lighting and Production Services); P; U
William Bradburn; Aerial Arts, Inc.; P; U
Wendy Holt; AMPTP/CSATF, representing the Alliance of Motion Picture and Television Producers; P; G
William Conner; Bill Conner Associates LLC, representing the Amer. Society of Theatre Consultants; P;
DE
James Niesel; Arup; P; G
Donald Hoffend_III; Avista Designs, LLC; A; G
Charlie Weiner; P; U
Daniel J. Clark; Clark-Reder Engineering, Inc.; P; G
Shawn Sack; Columbus McKinnon Corp.; A; MP
Art Zobal; Columbus McKinnon Corp.; A; MP
Edward A. (Ted) Paget; Daktronics Automated Rigging Solutions (Daktronics Inc.); P; CP
M. Brad Dittmer; Downhome Productions; P; U
Harvey Sweet; Electronic Theatre Controls, Inc.; P; MP
Michael Lichter; Electronic Theatre Controls, Inc.; A; MP
Dana Bartholomew; Fisher Technical Services, Inc.; P; CP
Rocky Paulson; Stage Rigging, Inc. (the Freeman Companies); P; DR
John Ringelman; Stage Rigging, Inc. (the Freeman Companies); A; DR
Miriam Paschetto; Geiger Engineers; P; G
Reid Neslage; H & H Specialties Inc.; P; MP
Roger Lattin; I.A.T.S.E .Local 728; P; U
John (Jack) Miller; I Weiss; P; CP
Peter V. Svitavsky; J.R. Clancy Inc.; P; CP
Tray Allen; James Thomas Engineering, Inc.; A; MP
Greg Herald; Kleege Industries; P; U
William Beautyman; Limelight Productions, Inc.; P; DR
William B. Gorlin; McLaren Engineering Group (M.G. McLaren, P.C.); P; G
Martin Moore; I; G
Vincent J. Cannavale; Motion Laboratories; P; CP
Donald Halchak; Mountain Productions Inc.; P; DR
Marty Wesstrom; Mountain Productions Inc.; A; DR
Pat Grenfell; PjDeZyNeS I; DE
Ron Bonner; PLASA; P; G
Rick Montgomery; R&M Materials Handling; P; MP
Troy Post; R&M Materials Handling; A; MP
Daniel Lynn Houser; Real Rigging Solutions, LLC; P; U
Bruce Darden; Rigging Innovators, Inc.; P; CP
Roy Bickel; O; G
Dan Culhane; SECOA; P; CP
Knut Skjonberg; Skjonberg Controls, Inc.; P; CP
Mark Ager; Stage Technologies; P; CP
Steve Walker; Steve A. Walker & Associates; P; G

Richard J. Nix; Entertainment Structures Group (Steven Schaefer Associates); P; G
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR
Stephen G. Surratt; Texas Scenic Company; P; DR
Jerry Gorrell; Theatre Safety Programs; P; G
John C. Snook; Thermotex Industries Inc.; O; CP
Jeff Wilkowski; Thern, Inc.; P; MP
Elmer Veith; Total Structures, Inc.; A; MP
Will Todd; Tomcat USA, Inc. (Vitec Group plc); A; MP
Pete Happe; Walt Disney Imagineering (Walt Disney Company); P; U
Michael Wells; Xtreme Structures and Fabrication; P; MP
Mark Newlin; Xtreme Structures and Fabrication; A; MP
Joseph Champelli; ZFX Flying Inc.; P; CP

Visitors:

Orestes Mihaly; Production Resource Group
Jeff Reder; Clark-Reder Engineering
Bob McVay; Schuler Shook

1 Opening remarks

Bill Sapsis called the meeting to order at 19:08. He thanked all for coming.

2 Attendance and membership

2.1 Introduction of those present

Those present introduced themselves.

2.2 Circulation of attendance sign-in sheet

A bright yellow sign-in sheet was circulated. Those present were instructed on how to check off their attendance or note any contact information changes.

2.3 Call for quorum

Bill Sapsis asked for a show of hands of voting members. He announced that a quorum was present.

2.4 Requirements for membership

Sapsis reminded those present that membership is open to all who are materially affected by the work of the group. People who would be in the designer interest group category are particularly encouraged to join. However, voting members are required to attend meetings and to vote on letter ballots. Any principal member and voting alternate who both miss three consecutive meetings or letter ballots will have their membership status changed to observer.

2.5 Changes of membership status resulting from lack of attendance.

The following voters and their alternates have missed the last two consecutive meetings, and will be moved to observer status if they miss this one:

William Bradburn; Aerial Arts, Inc.
Dana Bartholomew; Fisher Technical Services, Inc.
Greg Herald; Kleege Industries

All were present. There were no voting status changes due to lack of attendance.

2.6 Processing of new membership requests

Applications:

John (Jack) Miller; I Weiss; P; CP
Pat Grenfell; PjDeZyNeS; I; DE
Troy Post; R&M Materials Handling; A; MP

Philip Fleming; PSAV Presentation Services; P; DR

Philip Fleming was not present.

Ted Paget moved that the applications be accepted with the requested voting status, except that Philip Fleming shall be accepted as an observer, due to his absence. The motion was seconded and then approved with a show of hands.

Dan Culhane moved that Pete Happe and Charlie Weiner be restored to voting status. The motion was seconded, and then approved with a show of hands.

2.7 Consensus body

Name	Company	Representing (This is the sort primary field.)	Voting status	Int. cat.
Woody Pyeatt	A V Pro, Inc.	A V Pro, Inc.	P	DR
Ethan William Gilson	ALPS	Advanced Lighting and Production Services	P	U
William Bradburn	Aerial Arts, Inc.	Aerial Arts, Inc.	P	U
Wendy Holt	AMPTP/CSATF	Alliance of Motion Picture and Television Producers	P	G
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	DE
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	A	DE
James Niesel	Arup	Arup	P	G
Donald A. Hoffend_Jr.	Avista Designs, LLC	Avista Designs, LLC	P	G
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	A	G
Charlie Weiner	Charlie Weiner	Charlie Weiner	P	U
Daniel J. Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	P	G
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Shawn Sack	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Art Zobal	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Edward A. (Ted) Paget	Daktronics Automated Rigging Solutions	Daktronics Inc.	P	CP
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
Harvey Sweet	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP
Dana Bartholomew	Fisher Technical Services, Inc.	Fisher Technical Services, Inc.	P	CP
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	P	DR
John Ringelman	Stage Rigging, Inc.	Freeman Companies	A	DR
Miriam Paschetto	Geiger Engineers	Geiger Engineers	P	G
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G
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
John (Jack) Miller	I Weiss	I Weiss	P	CP
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

Name	Company	Representing (This is the sort primary field.)	Voting status	Int. cat.
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP
Greg Herald	Kleege Industries	Kleege Industries	P	U
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Bob Medve	Limelight Productions, Inc.	Limelight Productions, Inc.	A	DR
William B. Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G
Martin Moore	Martin Moore	Martin Moore	I	G
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
Donald Halchak	Mountain Productions Inc.	Mountain Productions Inc.	P	DR
Marty Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	A	DR
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Spencer Brown	Oasis Stage Werks	Oasis Stage Werks	A	DR
Pat Grenfell	PjDeZyNeS	PjDeZyNeS	I	DE
Ron Bonner	PLASA	PLASA	P	G
Rick Montgomery	R&M Materials Handling	R&M Materials Handling	P	MP
Troy Post	R&M Materials Handling	R&M Materials Handling	A	MP
Daniel Lynn Houser	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	P	U
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	A	U
Shawn Nolan	Reed Rigging, Inc.	Reed Rigging, Inc.	P	DR
Bruce Darden	Rigging Innovators, Inc.	Rigging Innovators, Inc.	P	CP
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Kimberly Corbett	Schuler Shook	Schuler Shook	P	DE
Joshua Grossman	Schuler Shook	Schuler Shook	A	DE
Dan Culhane	SECOA	SECOA	P	CP
Jerald Kraft	SECOA	SECOA	A	CP
Jean-Philippe Robitaille	Show Distribution Group, Inc.	Show Distribution Group, Inc.	P	DR
Knut Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	P	CP
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	A	CP
Mark Ager	Stage Technologies	Stage Technologies	P	CP
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
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
Rick Rosas	Texas Scenic Company	Texas Scenic Company	A	DR
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP
Adrian Forbes-Black	Total Structures Inc.	Total Structures Inc.	P	MP

Name	Company	Representing (This is the sort primary field.)	Voting status	Int. cat.
Elmer Veith	Total Structures - Eastern US Sales Office	Total Structures, Inc.	A	MP
Theresa Kelley	Total Structures Inc.	Total Structures Inc.	A	MP
Dan Lisowski	Dept. Of Theatre and Drama	University of Wisconsin - Madison	P	U
Keith Bohn	Tomcat USA, Inc.	Vitec Group plc	P	MP
Will Todd	Tomcat USA, Inc.	Vitec Group plc	A	MP
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U
Michael Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP
Mark Newlin	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	A	MP
Joseph Champelli	ZFX Flying Inc.	ZFX Flying Inc.	P	CP
Stu Cox	ZFX Flying Inc.	ZFX Flying Inc.	A	CP
		Total votes possible	54	
		Votes by interest categories	10	CP
			9	MP
			9	DR
			11	U
			12	G
			3	DE

3 Approval of minutes from the previous meeting

See the draft minutes of the July 2010 meeting, RIGmin07-2010.pdf.

Dan Culhane moved to accept the draft minutes as written. The motion was seconded and then approved with a show of hands.

4 ESTA declarations

4.1 Anti-trust statement

The following statement was read aloud to the assembly by Bill Sapsis:

"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."

The Technical Standards Manager held up one of the easy-to-read pamphlets to show that copies were available at the meeting.

No restraint of trade problems were reported.

4.2 Call for patents

The following statement was 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 was reported.

5 Approval of the agenda

Ted Paget moved that the agenda be adopted. The motion was seconded and then approved with a show of hands.

6 Old business

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

Report on proposed changes, revision progress. Dan Houser, Rocky Paulson, Bill Sapsis.

Ruling reported that it was officially an American National Standard project, so there should be no impediment to working on it.

6.2 ANSI E1.2-2006, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers

What next? Shall we vote for a reaffirmation public review?

Richard Nix moved that the standard be offered for public review for reaffirmation. The motion was seconded and then approved with a show of hands, with all in favor. Ruling noted that the current P&P requires this vote to be by letter ballot, so working group members should expect one. The letter ballot requirement for a first review vote probably will be removed when the P&P is revised.

6.3 ANSI E1.4-2009, Entertainment Technology--Manual Counterweight Rigging Systems

No news.

6.4 BSR E1.6-1, Entertainment Technology--Powered Hoist Systems

Comment resolutions progress report and discussion.

Harvey Sweet reported that almost 370 comments had been received in the Spring, but some are multi-part, so the count is really more than 400. The task group has been having teleconference meetings and has a set of draft resolutions, but these need to be reviewed. The task group will work to complete this in time for the January working group meeting in Texas.

There was a discussion of adding the following text, which had been suggested by Pete Svitavsky:

I. Add this as an introduction to the section of Definitions:

"The definitions in this section are to be applied for the purpose of interpreting this standard"

This explains to the readers that this section was not put into the standard as an attempt to build consensus on the meaning of all of the words, and that in some cases we have used new phrases to replace those that may have colloquial meanings so that they do not lead to subjective interpretation of the

standard. Language with similar meaning appears in the introduction to the Definitions sections of several NFPA documents.

II. Add these as definitions:

Shall: A term used in this standard to indicate that an action is mandatory.

Should: A term used in this standard to indicate that an action is recommended under most conditions, but is not mandatory.

There was discussion of whether "should" should ever be used in a standard. Also there was a discussion of whether "under most conditions" was a useful phrase. By a show of hands, 31 said that "should" can be used in the body, but ten said it should only in an informative annex.

Bill Conner asked that the draft standard and draft resolutions be sent to the working group more than two weeks in advance of the next meeting. The working group members need time to review and think about them, and a two-week schedule is tight.

6.5 BSR E1.6-2, Entertainment Technology--Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry

Draft comment resolutions and revised draft standard: discussion and possible vote. Another public review? See E1-6-2SxthResolsSmmry.pdf and E1_6-2_2005-2040r7.pdf.

Dan Culhane moved that the draft resolutions be accepted. The motion was seconded. The motion was approved by a supermajority of the working group with a show of hands.

Dan Culhane moved that the revised E1.6-2 be offered for public review. The motion was seconded. The motion was approved by a supermajority on a roll call ballot.

Name	Company	Representing (This is the sort primary field.)	Voting status	Int. cat.	Yes	Yes with comments	No with reasons	Abstain
Woody Pyeatt	A V Pro, Inc.	A V Pro, Inc.	P	DR	Y			
Ethan William Gilson	ALPS	Advanced Lighting and Production Services	P	U	Y			
William Bradburn	Aerial Arts, Inc.	Aerial Arts, Inc.	P	U	Y			
Wendy Holt	AMPTP/CSATF	Alliance of Motion Picture and Television Producers	P	G	Y			
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	DE				A
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	A	DE				
James Niesel	Arup	Arup	P	G	Y			
Donald A. Hoffend_Jr.	Avista Designs, LLC	Avista Designs, LLC	P	G				
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	A	G	Y			
Charlie Weiner	Charlie Weiner	Charlie Weiner	P	U	Y			
Daniel J. Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	P	G	Y			
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP	Y			
Shawn Sack	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP				
Art Zobal	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP				
Edward A. (Ted) Paget	Daktronics Automated Rigging Solutions	Daktronics Inc.	P	CP	Y			

Name	Company	Representing (This is the sort primary field.)	Voting status	Int. cat.	Yes	Yes with comments	No with reasons	Abstain
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U	Y			
Harvey Sweet	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP	Y			
Michael Lichter	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP				
Dana Bartholomew	Fisher Technical Services, Inc.	Fisher Technical Services, Inc.	P	CP	Y			
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	P	DR	Y			
John Ringelman	Stage Rigging, Inc.	Freeman Companies	A	DR				
Miriam Paschetto	Geiger Engineers	Geiger Engineers	P	G	Y			
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP	Y			
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G				
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	Y			
John (Jack) Miller	I Weiss	I Weiss	P	CP	Y			
Peter V. Svitavsky	J.R. Clancy Inc.	J.R. Clancy Inc.	P	CP	Y			
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	Y			
Greg Herald	Kleege Industries	Kleege Industries	P	U	Y			
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR	Y			
Bob Medve	Limelight Productions, Inc.	Limelight Productions, Inc.	A	DR				
William B. Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G	Y			
Martin Moore	Martin Moore	Martin Moore	I	G	Y			
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP	Y			
Peter Herrmann	Motion Laboratories	Motion Laboratories	A	CP				
David Herrmann	Motion Laboratories	Motion Laboratories	A	CP				
Donald Halchak	Mountain Productions Inc.	Mountain Productions Inc.	P	DR	Y			
Marty Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	A	DR				
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR				
Spencer Brown	Oasis Stage Werks	Oasis Stage Werks	A	DR				
Pat Grenfell	PjDeZyNeS	PjDeZyNeS	I	DE	Y			
Ron Bonner	PLASA	PLASA	P	G	Y			
Rick Montgomery	R&M Materials Handling	R&M Materials Handling	P	MP	Y			
Troy Post	R&M Materials Handling	R&M Materials Handling	A	MP				
Daniel Lynn Houser	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	P	U	Y			
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	A	U				
Shawn Nolan	Reed Rigging, Inc.	Reed Rigging, Inc.	P	DR				
Bruce Darden	Rigging Innovators, Inc.	Rigging Innovators, Inc.	P	CP	Y			
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U	Y			
Kimberly Corbett	Schuler Shook	Schuler Shook	P	DE				

Name	Company	Representing (This is the sort primary field.)	Voting status	Int. cat.	Yes	Yes with comments	No with reasons	Abstain
Joshua Grossman	Schuler Shook	Schuler Shook	A	DE				
Dan Culhane	SECOA	SECOA	P	CP	Y			
Jerald Kraft	SECOA	SECOA	A	CP				
Jean-Philippe Robitaille	Show Distribution Group, Inc.	Show Distribution Group, Inc.	P	DR				
Knut Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	P	CP	Y			
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	A	CP				
Mark Ager	Stage Technologies	Stage Technologies	P	CP	Y			
Steve Walker	Steve A. Walker & Associates	Steve A. Walker & Associates	P	G	Y			
Richard J. Nix	Entertainment Structures Group	Steven Schaefer Associates	P	G	Y			
Kyle Kusmer	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	Y			
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	Y			
Rick Rosas	Texas Scenic Company	Texas Scenic Company	A	DR				
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G	Y			
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP	Y			
Adrian Forbes-Black	Total Structures Inc.	Total Structures Inc.	P	MP				
Elmer Veith	Total Structures - Eastern US Sales Office	Total Structures, Inc.	A	MP	Y			
Theresa Kelley	Total Structures Inc.	Total Structures Inc.	A	MP				
Dan Lisowski	Dept. Of Theatre and Drama	University of Wisconsin - Madison	P	U				
Keith Bohn	Tomcat USA, Inc.	Vitec Group plc	P	MP				
Will Todd	Tomcat USA, Inc.	Vitec Group plc	A	MP	Y			
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U				A
Michael Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP	Y			
Mark Newlin	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	A	MP				
Joseph Champelli	ZFX Flying Inc.	ZFX Flying Inc.	P	CP	Y			
Stu Cox	ZFX Flying Inc.	ZFX Flying Inc.	A	CP				
		Total votes	54 possible		45	0	0	2

	Yes	Yes with comments	No with reasons	Abstain	Not present	Totals
CP	10	0	0	0	0	10
MP	9	0	0	0	0	9
DR	6	0	0	0	3	9
U	8	0	0	1	2	11
G	11	0	0	0	1	12
DE	1	0	0	1	1	3
Totals	45	0	0	2	7	54

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

Public review comment resolution progress report.

Pete Happe reported that the task group is working and expects to have a set of draft resolutions done by January 2011.

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

Report on vote for first public review. Recirculated ballot closes 13 October 2010.

The working group approved the public review, although there were reasons offered supporting No votes, and some of these reasons pointed out errors and not simply points of disagreement. Ruling reported that the TSC had approved the public review motion, too, but also went on record as strongly encouraging the working group to consider and to discuss the dissenting comments at a meeting before the public review.

There was discussion. The consensus was that the circuit diagrams had errors.

Harvey Sweet moved that the document be returned to the task group for revision. The motion was seconded by discussion. With a show of hands a supermajority approved the motion.

Peter Herrmann said that he and the task group will work on resolving the comments and it will come back to the working group with an improved version to consider for public review.

6.8 ANSI E1.8-2005, Entertainment Technology--Loudspeaker Enclosures Intended for Overhead Suspension--Classification, Manufacture and Structural Testing

Report on public review comments; next steps. See E1-8_Reaf_RevwCmmnts.pdf.

Ruling noted that there were no comments received from the materially affected public. The only comments were those submitted by working group members on the letter ballot to offer the draft standard for public review, none of whom are materially affected by the standard. Those comments were to improve the document, not to correct errors. He encouraged the working group to simply reaffirm the standard, rather than starting a revision project.

Woody Pyeatt of AV Pro said that he had given a copy of the standard to his boss and asked if there were any problems with it. His boss' answer was No.

Jerry Gorrell moved that we reaffirm the existing E1.8-2005 standard. The motion was seconded. The final approval vote will be by letter ballot.

Reid Neslage moved that we hold the comments and reasons offered on the public review ballot for the next time that we revise the standard. The motion was seconded. The motion was approved by a supermajority show of hands. The vote was unanimous except for two abstentions.

6.9 ANSI E1.15-2006, Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies

Report on vote for public review. Recirculated ballot closes 13 October 2010.

The working group's vote at the end of the recirculation was still in favor, reported Ruling. He also reported that the TSC had approved the motion.

6.10 ANSI E1.21-2006, Temporary Ground-Supported Overhead Structures Used To Cover Stage Areas and Support Equipment in the Production of Outdoor Entertainment Events

Discussion of revision. BSR E1.38-20XX has been incorporated into this document.

William Gorlin reported that that the task group had worked through to section 4.4. He asked working group members to send comments to Keith Bohn, who will then distribute them to the task group.

Jerry Gorrell noted that there is a reference in the mandatory section of the standard requiring compliance with tables in what is labeled a non-mandatory section. This is confusing and needs to be corrected. The tables either have requirements, in which case they aren't non-mandatory, or they are informational only, in which case they aren't mandatory.

6.11 ANSI E1.22 - 2009, Entertainment Technology - Fire Safety Curtain Systems

It's published. Any news or action needed?

Bill Conner announced that proposals for NFPA 80, which has a section on fire safety curtains, are due November 23. Proposals forms and procedures are detailed on the NFPA website.

(Go to <http://www.nfpa.org/aboutthecodes/AboutTheCodes.asp?DocNum=80>, click on the "Next Edition" tab.)

6.12 Arup fire modeling project progress report

Progress report from Jim Neisel.

A PowerPoint showing videos of fire development on stage with various scenerios for smoke suppression was shown. There was a brief discussion of the futility of using fusable links on the upstage proscenium wall. They don't release until a fire is very far advanced.

6.13 BSR E1.39 - 20xx

Progress report from Rocky Paulson.

Rocky Paulson reported that the title had been changed: "Entertainment Technology – Recommendations for the Use of Personal Fall Arrest Systems Protection on Portable Structures Used in the Entertainment Industry~~Temporary Suspended and Ground-Supported Structures~~"

He explained that this was to make it more clear that this is about fall arrest, and not about other fall protection systems such as guard rails and nets. Also, "portable" is a better term for our modular structures that are carried in, assembled, disassembled, and then carried out.

He apologized to the working group for not having a draft ready for this meeting. He said that a draft would be ready for the Summer 2011 meeting.

7 New business

None.

8 Other business and announcements

8.1 PLASA International Rigging Conference

Report from Bill Sapsis on the PLASA Rigging Conference:

"The inaugural conference was, in general, a good start. The format was one session at a time so everyone attended everything. Typically there was a speaker or two, a moderator, an expert panel, and an audience of around 200. The majority of the sessions did not deal specifically with rigging but spent their time talking about government regulations. Mostly the discussion revolved around how to comply with rules that had nothing to do with the entertainment industry or how to get around them. There was also a fair amount of discussion about the differences in the rules between the various EU countries. Given the apparent high level of interaction between PLASA and the HSE, and other groups with their parent country versions of HSE, I was surprised at the lack of coordination and the seemingly lack of interest in combating the problem with standards. They are planning a conference for next year and my hope, and the feedback that I sent to them, is that they will spend more time on actual rigging issues and less time on regulations."

Ron Bonner said that he thought this was a bit unfairly critical. It was the first conference, and Sapsis's comments and those from others will be taken on board. The regulations were discussed because they have a significant impact on what people do, more so than do regulations in North America.

Sapsis reiterated that all-in-all he felt it was a good conference.

8.2 Other other business

None

9 Schedule for future meetings

Bill Sapsis announced that the next meeting is scheduled for Saturday, 22 January 2011, from 13:00 to 17:00 at the Dallas/Ft. Worth Marriott Solana in Westlake, TX.

10 Adjournment

Ted Paget moved that the meeting adjourn. The motion was seconded. Hearing no objections, Bill Sapsis declared the meeting adjourned at 21:43.

Working Group Membership and Contact Information as of 3 November 2010

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. cat.
Woody Pyeatt	A V Pro, Inc.	A V Pro, Inc.	P	DR
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	O	G
Ethan William Gilson	ALPS	Advanced Lighting and Production Services	P	U
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
Wendy Holt	AMPTP/CSATF	Alliance of Motion Picture and Television Producers	P	G
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	DE
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	A	DE
Jim Fletcher	American Sling Company, Inc.	American Sling Company, Inc.	O	MP
André Broucke	André Broucke	André Broucke	O	G
John "Andrew" Munro	animaenagerie	animaenagerie	O	U
Jon Lenard	Applied Electronics	Applied Electronics	O	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
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	A	G
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Buddy Braile	Bestek Lighting & Staging	Bestek Lighting & Staging	O	U
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Brent Armstong	Brent Armstong	Brent Armstong	O	U
Joachim Stoecker	CAMCO GmbH	CAMCO GmbH	O	MP
Charlie Weiner	Charlie Weiner	Charlie Weiner	P	U

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. cat.
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	U
Daniel J. Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	P	G
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Shawn Sack	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Art Zobal	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Bill Waters	Conductix-Wampfler	Conductix-Wampfler	O	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
Edward A. (Ted) Paget	Daktronics Automated Rigging Solutions	Daktronics Inc.	P	CP
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
Harvey Sweet	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	O	G
Cristina Delboni	Feeling Structures	Feeling Structures	O	MP
Dana Bartholomew	Fisher Technical Services, Inc.	Fisher Technical Services, Inc.	P	CP
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
Miriam Paschetto	Geiger Engineers	Geiger Engineers	P	G
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

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. cat.
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G
Howard Forryan	Harting Ltd.	Harting KGAA	O	MP
Peter "Punch" Christian Schmidtke	Hollywood Lighting Services, Inc.	Hollywood Lighting, Inc.	O	DR
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
John (Jack) Miller	I Weiss	I Weiss	P	CP
Michael Dileo	IATSE Local 481	IATSE Local 481	O	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	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
Gary Mardling	Kish Rigging	Kish Rigging	O	DR
Greg Herald	Kleege Industries	Kleege Industries	P	U
Nevin Kleege	Kleege Industries	Kleege Industries	O	U
Mark Riddlesperger	LA ProPoint, Inc.	LA ProPoint, Inc.	O	CP
Katherine Tharp	LA ProPoint, Inc.	LA ProPoint, Inc.	O	CP
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Bob Medve	Limelight Productions, Inc.	Limelight Productions, Inc.	A	DR

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. cat.
Louis Bradfield	Louis Bradfield	Louis Bradfield	O	U
William B. Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G
Martin Moore	Martin Moore	Martin Moore	I	G
Maria Bement	MGM Grand	MGM Grand	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	O	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
Donald Halchak	Mountain Productions Inc.	Mountain Productions Inc.	P	DR
James B. Evans	Mountain Productions Inc.	Mountain Productions Inc.	O	DR
Marty Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	A	DR
Bradford A. Kegel	National Production Services Inc.	National Production Services Inc.	O	U
François Deffarges	Nexo	Nexo	O	MP
Tracy Nunnally	Northern Illinois University	Northern Illinois University	O	U
Ted Hickey	OAP Audio Products	OAP Audio Products	O	MP
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	O	DR
Spencer Brown	Oasis Stage Werks	Oasis Stage Werks	A	DR
Bob Murphy	Occams Razor Technical Services	Occams Razor Technical Services	O	G
Robert A. Grenier_Jr.	Ocean State Rigging Systems Inc.	Ocean State Rigging Systems Inc.	O	DR
Pat Grenfell	PjDeZyNeS	PjDeZyNeS	I	DE
Ron Bonner	PLASA	PLASA	P	G
Michael Patterson	Pook Diemont & Ohl, Inc.	Pook Diemont & Ohl, Inc.	O	CP
Marc Hendriks	Prolyte	Prolyte	O	MP

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. cat.
Philip Fleming	PSAV Presentation Services	PSAV Presentation Services	O	DR
Douglas Franz	QVC Network	QVC Network	O	U
Rick Montgomery	R&M Materials Handling	R&M Materials Handling	P	MP
Troy Post	R&M Materials Handling	R&M Materials Handling	A	MP
Scott Mohr	R&R Cases and Cabinets	R&R Cases and Cabinets	O	G
Daniel Lynn Houser	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	P	U
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	A	U
Shawn Nolan	Reed Rigging, Inc.	Reed Rigging, Inc.	P	DR
Michael Reed	Reed Rigging, Inc.	Reed Rigging, Inc.	O	DR
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
Roy Bickel	Roy Bickel	Roy Bickel	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	O	G
Kimberly Corbett	Schuler Shook	Schuler Shook	P	DE
Joshua Grossman	Schuler Shook	Schuler Shook	A	DE
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
Jean-Philippe Robitaille	Show Distribution Group, Inc.	Show Distribution Group, Inc.	P	DR
Knut Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	P	CP
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	A	CP

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. cat.
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Jon Lagerquist	South Coast Repertory	South Coast Repertory	O	U
Mark Ager	Stage Technologies	Stage Technologies	P	CP
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
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
Rick Rosas	Texas Scenic Company	Texas Scenic Company	A	DR
Eugene Leitermann	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	O	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

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. cat.
Dan Lisowski	Dept. Of Theatre and Drama	University of Wisconsin - Madison	P	U
JoAnna Kamorin-Lloyd	Vincent Lighting Systems	Vincent Lighting Systems	O	U
Michael Keppler	Bogen	Vitec Group	O	MP
Keith Bohn	Tomcat USA, Inc.	Vitec Group plc	P	MP
Will Todd	Tomcat USA, Inc.	Vitec Group plc	A	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
Michael Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP
Mark Newlin	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	A	MP
Joseph Champelli	ZFX Flying Inc.	ZFX Flying Inc.	P	CP
Robert Dean	ZFX Flying Inc.	ZFX Flying Inc.	O	DR
Stu Cox	ZFX Flying Inc.	ZFX Flying Inc.	A	CP

Voting status

- P principal
- A alternate
- I individual voting member
- O observer, non-voting

Interest categories

- CP custom-market producer
- MP mass-market producer
- DR dealer or rental company
- U user
- G general interest
- DE designer