

Minutes
Rigging Working Group
Saturday, 22 January 2011
Marriott Solana

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

Recording secretary: Karl G. Ruling; PLASA

Members attending:

Woody Pyeatt; A V Pro, Inc.; P; DR
Ethan William Gilson; 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
James Niesel; Arup; P; G
Charlie Weiner; Charlie Weiner; P; U
Herb Hart; Columbus McKinnon Corp.; P; MP
Art Zabal; 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
John Ringelman; Stage Rigging, Inc. (the Freeman Companies); A; DR
Miriam Paschetto; Geiger Engineers; P; G
Reid Neslage; 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; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
John (Jack) Miller; I Weiss; P; CP
Rod Haney; IATSE Local 891; P; U
Peter V. Svitavsky; J.R. Clancy Inc.; P; CP
Mike Garl; James Thomas Engineering, Inc.; P; MP
Tray Allen; James Thomas Engineering, Inc.; A; MP
Greg Herald; Kleege Industries; P; U
William B. Gorlin; McLaren Engineering Group (M.G. McLaren, P.C.); P; G
Donald Halchak; Mountain Productions Inc.; P; DR
Marty Wesstrom; Mountain Productions Inc.; A; DR
Tim Hansen; Oasis Stage Werks; P; DR
Pat Grenfell; PjDeZyNeS; I; DE
Ron Bonner; PLASA Technical Resources Office (PLASA); P; G
Rick Montgomery; R&M Materials Handling; P; MP
Bruce Darden; Rigging Innovators, Inc.; P; CP
Kimberly Corbett; Schuler Shook; P; DE
Dan Culhane; SECOA; P; CP
Knut Skjonberg; Skjonberg Controls, Inc.; P; CP
Monica Skjonberg; Skjonberg Controls, Inc.; A; 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
Jeff Wilkowski; Thern, Inc.; P; MP
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 (the Walt Disney Company); P; U

Michael Wells; Xtreme Structures and Fabrication; P; MP
Joseph Champelli; ZFX Flying Inc.; P; CP

Visitors: Jody Williquette; Electrivert
Benjamin Cohen; Reed Rigging

1 Opening remarks

Bill Sapsis called the meeting to order at 13:01. He asked for a few moments of silence in honor of David Taylor.

2 Attendance and membership

2.1 Introduction of those present

Those present introduced themselves. Sapsis made a point of including those present who were sitting against the wall, not at the table.

2.2 Circulation of attendance sign-in sheet

A loud pink sign-in sheet was circulated, and those present were instructed to sign in. Members and pending members were noted in the table, sorted by the company or organization represented. Those whose names were not listed in the table were instructed to sign-in on the following pages marked "Visitor Registration."

2.3 Call for quorum

Sapsis asked for a show of hands of voters. He counted them and then announced that a quorum was present and business could be conducted.

2.4 Requirements for membership

Sapsis reminded the assembly 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:

Tim Hansen & Spencer Brown; Oasis Stage Werks (Present)
Shawn Nolan; Reed Rigging (Not present)
Jean-Philippe Robitaille; Show Distribution (Not present)
Dan Lisowski; University of Wisconsin – Madison (Not present)

Bill Sapsis announced that Shawn Nolan (Reed Rigging), Jean-Philippe Robitaille (Show Distribution), and Dan Lisowski (University of Wisconsin – Madison) were now non-voting observer members due to their failure to meet the minimum meeting attendance requirement for voters.

2.6 Processing of new membership requests

The following applications were presented at the meeting:

Ken Lager; Pook, Diemont & Ohl, Inc.; Observer; DR
Howard Forryan; HARTING Ltd. (Harting KGAA); Alternate to Ed Garstkiewicz; G
Rod Haney, IATSE Local 891; Principal; User
Brandon Creel; Starlite Productions; Observer; Dealer/Rental Company

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

Ron Bonner asked for a confirmation of his voting status. The consensus was that he represented an important constituency and should be allowed to vote. The discussion lead to a further discussion of how the ESTA/PLASA merger will have little effect on the day-to-day working of the Technical Standards Program.

2.7 Consensus body

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

Name	Company	Representing (This is the primary sort 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
Howard Forryan	Harting Ltd.	Harting KGAA	A	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
Rod Haney	IATSE Local 891	IATSE Local 891	P	U
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

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
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 Technical Resources Office	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
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
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 Group	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
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	Representing (This is the primary sort field.)	Voting status	Int. cat.
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	52	
		Votes by interest categories	10	CP
			9	MP
			7	DR
			11	U
			12	G
			3	DE

3 Approval of minutes from the previous meeting

See the draft minutes of the October 2010 meeting, *RIGmin10-2010.pdf*.

Eddie Kramer moved that the draft minutes be accepted as written. The motion was seconded and then approved with a show of hands.

4 PLASA declarations

4.1 Anti-trust statement

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

"The PLASA Board of Directors, the Technical Standards Council, 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 PLASA president immediately.

"PLASA 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 some copies of the pamphlet to show that they were available at the meeting.

No restraint of trade issues were reported.

4.2 Call for patents

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

"PLASA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. PLASA uses a process of open patent and copyright disclosures to implement its intent. PLASA 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 accepted. The motion was seconded. The motion was 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.

A document for comment had been circulated. There was a brief discussion. No motions were offered.

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

Reaffirmation public review vote news.

Karl Ruling reported that he had forgotten to put this on his to-do list, so the letter ballot was issued late. He reminded people that this is a vote to offer the document for public review as part of a reaffirmation process. If the working group wishes to reaffirm it, they cannot change it, because changing it would be to revise it. Voters certainly may vote against the public review motion, if they wish, but suggesting that the document should be changed before offering it for reaffirmation doesn't make sense. If voters want to change the document, they want to revise it.

There was discussion of the differences between substantive and non-substantive changes. Renumbering clauses would not be a substantive change, Ruling said, because it would not change the requirements of the standard or change how people interpret the requirements of the standard. It would simply make the standard easier to read.

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

No news or action.

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

Comment resolutions progress report and discussion.

Harvey Sweet described the progress, which has been helped by the teleconferencing service being sponsored by Arup. There was a discussion of when the new draft and proposed resolutions would be ready for working group review. Many working group members wanted more than the two-week minimum before the meeting to review the document. Sweet said that the task group would do its best to finish its work so that the review period before the next meeting can be more than two weeks.

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

Public review report.

The review runs through February 7, Karl Ruling said. Only two people had commented so far.

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

Public review comment resolution progress report. See E1-6-3_1stRevwResols.pdf and BSRE1-6-3_2008-2019r3.pdf

Brad Dittmer moved that the draft comment resolutions be accepted. The motion was seconded. There was no discussion. The motion was approved by a supermajority with a show of hands.

Pete Happe moved that the revised draft E1.6-3standard (file name BSRE1-6-3_2008-2019r3.pdf) be offered for public review. The motion was seconded and then approved on a roll call vote.

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present
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					X
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					X
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	A	G					
Charlie Weiner	Charlie Weiner	Charlie Weiner	P	U	Y				
Daniel J. Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	P	G					X
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				
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U	Y				
Harvey Sweet	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP				A	
Michael Lichter	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP					
Dana Bartholomew	Fisher Technical Services, Inc.	Fisher Technical Services, Inc.	P	CP					X
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	P	DR					
John Ringelman	Stage Rigging, Inc.	Freeman Companies	A	DR	Y				
Miriam Paschetto	Geiger Engineers	Geiger Engineers	P	G				A	
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP	Y				
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G	Y				
Howard Forryan	Harting Ltd.	Harting KGAA	A	G					
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	Y				
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				
Rod Haney	IATSE Local 891	IATSE Local 891	P	U				A	
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	Y				

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP					
Greg Herald	Kleege Industries	Kleege Industries	P	U	Y				
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR					X
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					X
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP					X
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 Weststrom	Mountain Productions Inc.	Mountain Productions Inc.	A	DR					
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR	Y				
Spencer Brown	Oasis Stage Werks	Oasis Stage Werks	A	DR					
Pat Grenfell	PjDeZyNeS	PjDeZyNeS	I	DE	Y				
Ron Bonner	PLASA Technical Resources Office	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					X
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	A	U					
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				A	
Joshua Grossman	Schuler Shook	Schuler Shook	A	DE					
Dan Culhane	SECOA	SECOA	P	CP	Y				
Jerald Kraft	SECOA	SECOA	A	CP					
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 Group	P	CP					X
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				

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP	Y				
Adrian Forbes-Black	Total Structures Inc.	Total Structures Inc.	P	MP					X
Elmer Veith	Total Structures - Eastern US Sales Office	Total Structures, Inc.	A	MP					
Theresa Kelley	Total Structures Inc.	Total Structures Inc.	A	MP					
Keith Bohn	Tomcat USA, Inc.	Vitec Group plc	P	MP	Y				
Will Todd	Tomcat USA, Inc.	Vitec Group plc	A	MP					
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U	Y				
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				A	
Stu Cox	ZFX Flying Inc.	ZFX Flying Inc.	A	CP					
			52 Total votes possible		37 Yes	0 Yes with comments	0 No	5 Abstain	10 Not present
		Votes by interest categories	10	CP	6	0	0	1	3
			9	MP	7	0	0	1	1
			7	DR	6	0	0	0	1
			11	U	9	0	0	1	1
			12	G	8	0	0	1	3
			3	DE	1	0	0	1	1

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

Report on fixing errors.

Roger Lattin moved that the r2d version containing the corrected illustrations be accepted as a suitable substitute for the flawed document that had been approved for public review. The motion was seconded.

There was discussion particularly centering on the minimum requirements for a class 3 system. There was no consensus on what those minimum requirements were that should be specified in the draft standard.

By a show of hands the motion failed. The draft standard was referred back to the task group to decide the minimum requirements for a class 3 system. Should automatic action to stop in fault situations be required in addition to visual indication to the operator, or is visual indication enough for a basic system?

Bill Sapsis directed working group members to submit any comments on BSR E1.6-4 be submitted to Karl Ruling, the Technical Standards Manager, by February 1 for him to forward them to the task group.

Harvey Sweet moved that the public review of E1.6-3 be held until E1.6-4 is revised and available for review to ensure that the references in E1.6-3 to E1.6-4 are appropriate. He noted that the two are closely intertwined. The motion was seconded. The motion was approved by a supermajority of the working group by a show of hands, with all present voting in favor except for one No vote and one Abstention.

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

Report on working group reaffirmation vote. The motion carried. See RWG_BallotResults-Rig_2010-2027r1.pdf.

Karl Ruling reiterated the results of the vote. He noted that some of the reasons offered with the No votes were suggestions to include material not within the current scope of E1.8 and covered in the BSR E1.21 revision. He also described the long discussions that had originally been held over design factors, and that the lower factor was chosen for hardware with little variability and the higher factor was chosen for components with more variability. He noted that Richard Nix had expressed an interest in the E1.8 document, and he suggested that Nix review the discussions during the development of E1.8 about design factors. A review of the arguments might be useful for developing other standards.

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

Report on public review. See E1-15_201xFrstRevwCmmntSmmry.pdf

Brad Dittmer moved that ANSI E1.15 be reaffirmed. The motion was seconded. The motion for reaffirmation of the standard shall be decided by letter ballot.

Brad Dittmer moved that the resolution to the one public review comment shall be: "Make no change. The standard does not require every pipe in the shop to be labeled." The motion was seconded. The motion was approved by a supermajority of the working group by a show of hands. There was one abstention; the rest of the voting body present voted Yes.

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

Revision progress report. BSR E1.38-20XX has been incorporated into this document.

Keith Bohn reported that the draft revisions are almost finished. The document will be circulated to the working group for possible action at the next meeting.

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

It's published. Any news or action needed?

Jim Niesel reported that Arup filed comments on NFPA 80 with the NFPA. One was to remove the fusible links on the proscenium wall, the second was to be more prescriptive on the rate of rise detectors.

6.12 Arup fire modeling project progress report

Progress report from Jim Niesel.

No video this time, reported Niesel. He said that the modeling project has been useful, and that the comments submitted by Arup to revise NFPA 80 were based on the results of the modeling project.

6.13 BSR E1.39 - 20xx, Entertainment Technology –Selection and Use of Personal Fall Arrest Systems on Portable Structures Used in the Entertainment Industry

Progress report. See BSRE1-39-1010-4.pdf. Written comments are requested from the working group by Rocky Paulson.

Ethan Gilson reported on the task group's progress. He repeated the request for comments. He said that the task group hopes to have a document by July that could be considered for public review.

7 New business

None.

8 Other business and announcements

8.1 Bill Sapsis announced that there would be an informal wake for David Taylor in the PLASA suite tomorrow night (January 23). The suite is room 704.

8.2 Harvey Sweet moved that we thank Arup for their support of the E1.6-1 project. The motion was seconded. The motion was approved on a voice vote.

8.3 Kimberly Corbett noted that the CPWG has an agenda item for discussion dealing with rigging control protocols and visualization software. She invited interested parties to attend the Control Protocols Working Group meeting on Monday 24 January.

9 Schedule for future meetings

At the start of this meeting, the next meeting was scheduled for Wednesday, 9 March 2011, from 19:00 to 23:00 at the Westin Charlotte in Charlotte, NC.

Bill Sapsis reported that after the publication of our meeting schedule, USITT moved their Fellows Address into a conflict with the RWG meeting in Charlotte. There are five or six Fellows in the Rigging Working Group, including Bill Sapsis. He asked, What should we do about it? The obvious options were:

- 1) Move our meeting to Friday evening.
- 2) Keep the meeting on Wednesday but take an hour-long break at 20:00.
- 3) Do nothing.

There was discussion. The consensus was that we should not reschedule our meeting to Friday evening. We will see about starting one hour earlier than now scheduled, which would be starting at 18:00, and will attempt to break for an intermission at 20:00.

10 Adjournment

Ted Paget moved that the meeting adjourn. The motion was seconded. Hearing no objections, Bill Sapsis declared the meeting adjourned at 16:09.

Working Group Membership and Contact Information as of 3 February 2011

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
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	U

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. Cat.
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
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G
Howard Forryan	Harting Ltd.	Harting KGAA	A	G
Peter "Punch" Christian Schmidtke	Hollywood Lighting Services, Inc.	Hollywood Lighting, Inc.	O	DR

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. Cat.
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 Dileso	IATSE Local 481	IATSE Local 481	O	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
Rod Haney	IATSE Local 891	IATSE Local 891	P	U
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
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

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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 Technical Resources Office	PLASA	P	G
Michael Patterson	Pook Diemont & Ohl, Inc.	Pook Diemont & Ohl, Inc.	O	CP
Ken Lager	Pook, Diemont & Ohl, Inc.	Pook, Diemont & Ohl, Inc.	O	DR
Marc Hendriks	Prolyte	Prolyte	O	MP
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

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. Cat.
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
Michael Reed	Reed Rigging, Inc.	Reed Rigging, Inc.	O	DR
Shawn Nolan	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, Inc.	Scheu Consulting Services, Inc.	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.	O	DR
Knut Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	P	CP
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	A	CP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Jon Lagerquist	South Coast Repertory	South Coast Repertory	O	U
Mark Ager	Stage Technologies	Stage Technologies Group	P	CP
Roger Barrett	Star Events Group Ltd.	Star Events Group Ltd.	O	DR
Brandon Creel	Starlite Productions	Starlite Productions	O	DR

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. Cat.
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
Dan Lisowski	Dept. Of Theatre and Drama	University of Wisconsin - Madison	O	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

Name	Company	Representation (This is the primary sort field.)	Voting status	Int. Cat.
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 voting member
- A alternate voting member
- 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