

Minutes
Rigging Working Group
Wednesday, 9 March 2011
Westin Charlotte

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

Recording secretary: Karl G. Ruling; PLASA

Members attending:

Mark Ager; Stage Technologies Group; P; CP
Tray Allen; James Thomas Engineering, Inc.; A; MP
Dana Bartholomew; Fisher Technical Services, Inc.; P; CP
William Beautyman; Limelight Productions, Inc.; P; DR
Keith Bohn; Vitec Group plc; P; MP
Joseph Champelli; ZFX Flying Inc.; P; CP
Kimberly Corbett; Schuler Shook; P; DE
Dan Culhane; SECOA; P; CP
Bruce Darden; Rigging Innovators, Inc.; P; CP
M. Brad Dittmer; Downhome Productions; P; U
Mike Garl; James Thomas Engineering, Inc.; P; MP
Ethan William Gilson; Advanced Lighting and Production Services; P; U
William B. Gorlin; M.G. McLaren, P.C.; P; G
Donald Halchak; Mountain Productions Inc.; P; DR
Rod Haney; IATSE Local 891; P; U
Tim Hansen; Oasis Stage Werks; P; DR
Pete Happe; Walt Disney Company; P; U
Greg Hareld; Kleege Industries; P; U
Peter Herrmann; Motion Laboratories; A; CP
Wendy Holt; Alliance of Motion Picture and Television Producers; P; G
Donald Hoffend_III; Avista Designs, LLC; A; G
Kent H. Jorgensen; IATSE Local 80; O; G
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Michael Lichter; Electronic Theatre Controls, Inc.; A; MP
Dan Lisowski; University of Wisconsin - Madison; P; U
Joseph McGeough; Foy Invention Enterprises, Inc.; P; CP
Orestes Mihaly; Production Resource Group; P; DR
John (Jack) Miller; I Weiss; P; CP
Reid Neslage; H & H Specialties Inc.; P; MP
Mark Newlin; Xtreme Structures and Fabrication; A; MP
Richard J. Nix; Steven Schaefer Associates; P; G
Shawn Nolan; Production Resource Group; A; DR
Edward A. (Ted) Paget; Daktronics Inc. ; P; CP
Rocky Paulson; Freeman Companies; P; DR
Woody Pyeatt; A V Pro, Inc.; P; DR
Michael Reed; Reed Rigging, Inc.; O; DR
Jean-Philippe Robitaille; Show Distribution Group, Inc.; O; DR
Shawn Sack; Columbus McKinnon Corp.; A; MP
Stephen G. Surratt; Texas Scenic Company; P; DR
Peter V. Svitavsky; J.R. Clancy Inc.; P; CP
Harvey Sweet; Electronic Theatre Controls, Inc.; P; MP
Will Todd; Vitec Group plc; A; MP
Elmer Veith; Total Structures, Inc.; A; MP
Steve Walker; Steve A. Walker & Associates; P; G

R. Duane Wilson; Amer. Society of Theatre Consultants; A; DE
Art Zabal; Columbus McKinnon Corp.; A; MP

Visitors:

Steven Siegmund; Texas Scenic
Susan Eisner; PRG

1 Opening remarks

Bill Sapsis called the meeting to order at 18:00. He welcomed all to "sunny, warm Charlotte." (It was raining and cold.) He reminded the assembly that there would be an intermission at 7:00 to allow those interested to attend the USITT Fellows Address.

2 Attendance and membership

2.1 Introduction of those present

Those present introduced themselves.

2.2 Circulation of attendance sign-in sheet

A bright orange sign-in sheet was circulated.

2.3 Call for quorum

Sapsis counted the number of voters present and then announced that we had a quorum.

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:

Nobody

2.6 Processing of new membership requests

Applications logged as of 21 February 2011:

Orestes Mihaly; Production Resource Group; Principal; DR
Shawn Nolan; Production Resource Group; Alt; DR
Joseph McGeough; Foy Invention Enterprises, Inc.; Principal; CP

Dan Lisowski asked to be reinstated to voting status.

Eddie Kramer moved that all the membership requests be accepted. The motion was seconded and then approved with a show of hands.

2.7 Consensus body during meeting

The consensus body during this meeting was

Name	Representing	Voting status	Int. cat.
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	Alliance of Motion Picture and Television Producers	P	G

Name	Representing	Voting status	Int. cat.
William Conner	Amer. Society of Theatre Consultants	P	DE
R. Duane Wilson	Amer. Society of Theatre Consultants	A	DE
James Niesel	Arup	P	G
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G
Donald Hoffend_III	Avista Designs, LLC	A	G
Charlie Weiner	Charlie Weiner	P	U
Daniel J. Clark	Clark-Reder Engineering, Inc.	P	G
Herb Hart	Columbus McKinnon Corp.	P	MP
Shawn Sack	Columbus McKinnon Corp.	A	MP
Art Zobal	Columbus McKinnon Corp.	A	MP
Edward A. (Ted) Paget	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
Joseph McGeough	Foy Invention Enterprises, Inc.	P	CP
Rocky Paulson	Freeman Companies	P	DR
John Ringelman	Freeman Companies	A	DR
Miriam Paschetto	Geiger Engineers	P	G
Reid Neslage	H & H Specialties Inc.	P	MP
Ed Garstkiewicz	Harting KGAA	P	G
Howard Forryan	Harting KGAA	A	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
Rodney F. Kaiser	J.R. Clancy, Inc.	A	CP
Thomas S. Young	J.R. Clancy, Inc.	A	CP
Mike Garl	James Thomas Engineering, Inc.	P	MP
Tray Allen	James Thomas Engineering, Inc.	A	MP
Greg Hareld	Kleege Industries	P	U
William Beautyman	Limelight Productions, Inc.	P	DR
Bob Medve	Limelight Productions, Inc.	A	DR
William B. Gorlin	M.G. McLaren, P.C.	P	G
Martin Moore	Martin Moore	I	G
Vincent J. Cannavale	Motion Laboratories	P	CP

Name	Representing	Voting status	Int. cat.
Peter Herrmann	Motion Laboratories	A	CP
David Herrmann	Motion Laboratories	A	CP
Donald Halchak	Mountain Productions Inc.	P	DR
Marty Wesstrom	Mountain Productions Inc.	A	DR
Tim Hansen	Oasis Stage Werks	P	DR
Spencer Brown	Oasis Stage Werks	A	DR
Pat Grenfell	PjDeZyNeS	I	DE
Ron Bonner	PLASA EU	P	G
Orestes Mihaly	Production Resource Group	P	DR
Shawn Nolan	Production Resource Group	A	DR
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
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	A	U
Bruce Darden	Rigging Innovators, Inc.	P	CP
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Kimberly Corbett	Schuler Shook	P	DE
Joshua Grossman	Schuler Shook	A	DE
Dan Culhane	SECOA	P	CP
Jerald Kraft	SECOA	A	CP
Knut Skjonberg	Skjonberg Controls, Inc.	P	CP
Monica Skjonberg	Skjonberg Controls, Inc.	A	CP
Mark Ager	Stage Technologies Group	P	CP
Steve Walker	Steve A. Walker & Associates	P	G
Richard J. Nix	Steven Schaefer Associates	P	G
Kyle Kusmer	Steven Schaefer Associates	A	G
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Frank Willard	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Stephen G. Surratt	Texas Scenic Company	P	DR
Rick Rosas	Texas Scenic Company	A	DR
Jerry Gorrell	Theatre Safety Programs	P	G
Jeff Wilkowski	Thern, Inc.	P	MP
Adrian Forbes-Black	Total Structures Inc.	P	MP
Elmer Veith	Total Structures, Inc.	A	MP
Theresa Kelley	Total Structures Inc.	A	MP
Dan Lisowski	University of Wisconsin - Madison	P	U
Keith Bohn	Vitec Group plc	P	MP

Name	Representing	Voting status	Int. cat.
Will Todd	Vitec Group plc	A	MP
Pete Happe	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
Stu Cox	ZFX Flying Inc.	A	CP
	Total	55	
	Subtotals by interest categories	11	CP
		9	MP
		8	DR
		12	U
		12	G
		3	DE

3 Approval of minutes from the previous meeting

See the draft minutes of the January 2011 meeting, *RIGmin01-2011.pdf*.

Ted Paget moved that the minutes be accepted. 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 chair 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."

Karl Ruling, the TSM, held up some of the easy-to-read pamphlets to show that they were available.

No one reported a restraint of trade problem.

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."

Nothing was reported.

5 Approval of the agenda

Wendy Holt moved that the agenda be accepted. 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.

Sapsis reported that they are late on this project. He apologized and said that the task group will work on it so that something can be presented for the July meeting.

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

Reaffirmation public review vote results.

Ruling reported that the vote for public review passed in the working group with the required number of Yes votes and that the TSC also approved the public review. The reasons for the No votes against the public review motion that argued for changes to the standard could be offered as public review comments.

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 report. Possible approval of the draft resolutions and the next step. See E1-6-1_2006-2011r3a.pdf and E1-6-1_2ndRevwResols-draft.pdf.

Harvey Sweet turned to Pete Svitasky to discuss the design factors used in the document. He expressed some concern that the design factors may or may not be correct. Asked for working group's engineers to vet the design factors.

Harvey Sweet asked if the WG wants to offer it for public review and then deal with design factors, or to get responses back from the WG, set the design factors, and *then* offer it for public review. There was discussion.

Bruce Darden moved that the comment resolution document be accepted and that the revised E1.6-1 standard be offered for public review. The motion was seconded.

Ted Paget moved that the motion be divided. The motion was seconded. The motion failed on a show of hands.

The motion to accept the public review comment resolutions and to offer the revised E1.6-1 document for public review was approved with the required supermajority on a roll call vote:

Name	Representing	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present/ no vote cast
Woody Pyeatt	A V Pro, Inc.	P	DR	Yes				
Ethan William Gilson	Advanced Lighting and Production Services	P	U	Yes				
William Bradburn	Aerial Arts, Inc.	P	U					X
Wendy Holt	Alliance of Motion Picture and Television Producers	P	G	Yes				
William Conner	Amer. Society of Theatre Consultants	P	DE					

Name	Representing	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present/ no vote cast
R. Duane Wilson	Amer. Society of Theatre Consultants	A	DE	Yes				
James Niesel	Arup	P	G					X
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G					
Donald Hoffend_III	Avista Designs, LLC	A	G	Yes				
Charlie Weiner	Charlie Weiner	P	U					X
Daniel J. Clark	Clark-Reder Engineering, Inc.	P	G					X
Herb Hart	Columbus McKinnon Corp.	P	MP					
Shawn Sack	Columbus McKinnon Corp.	A	MP	Yes				
Art Zobal	Columbus McKinnon Corp.	A	MP					
Edward A. (Ted) Paget	Daktronics Inc.	P	CP	Yes				
M. Brad Dittmer	Downhome Productions	P	U	Yes				
Harvey Sweet	Electronic Theatre Controls, Inc.	P	MP	Yes				
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP					
Dana Bartholomew	Fisher Technical Services, Inc.	P	CP	Yes				
Rocky Paulson	Freeman Companies	P	DR	Yes				
John Ringelman	Freeman Companies	A	DR					
Joseph McGeough	Foy Invenerprises, Ind	P	CP	Yes				
Miriam Paschetto	Geiger Engineers	P	G					X
Reid Neslage	H & H Specialties Inc.	P	MP	Yes				
Ed Garstkiewicz	Harting KGAA	P	G					X
Howard Forryan	Harting KGAA	A	G					
John (Jack) Miller	I Weiss	P	CP	Yes				
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U	Yes				
Roger Lattin	I.A.T.S.E. Local 728	P	U	Yes				
Rod Haney	IATSE Local 891	P	U	Yes				
Peter V. Svitavsky	J.R. Clancy Inc.	P	CP			No		
Thomas S. Young	J.R. Clancy, Inc.	A	CP					
Rodney F. Kaiser	J.R. Clancy, Inc.	A	CP					
Mike Garl	James Thomas Engineering, Inc.	P	MP	Yes				
Tray Allen	James Thomas Engineering, Inc.	A	MP					
Greg Herald	Kleege Industries	P	U	Yes				
William Beautyman	Limelight Productions, Inc.	P	DR	Yes				
Bob Medve	Limelight Productions, Inc.	A	DR					
William B. Gorlin	M.G. McLaren, P.C.	P	G			No		
Martin Moore	Martin Moore	I	G					X
Vincent J. Cannavale	Motion Laboratories	P	CP					

Name	Representing	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present/ no vote cast
Peter Herrmann	Motion Laboratories	A	CP	Yes				
David Herrmann	Motion Laboratories	A	CP					
Donald Halchak	Mountain Productions Inc.	P	DR	Yes				
Marty Wesstrom	Mountain Productions Inc.	A	DR					
Tim Hansen	Oasis Stage Werks	P	DR	Yes				
Spencer Brown	Oasis Stage Werks	A	DR					
Pat Grenfell	PjDeZyNeS	I	DE					X
Ron Bonner	PLASA EU	P	G					X
Orestes Mihaly	PRG	P	DR	Yes				
Shawn Nolan	PRG	A	DR					
Rick Montgomery	R&M Materials Handling	P	MP					X
Troy Post	R&M Materials Handling	A	MP					
Daniel Lynn Houser	Real Rigging Solutions, LLC	P	U					X
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	A	U					
Bruce Darden	Rigging Innovators, Inc.	P	CP	Yes				
Bill Sapsis	Sapsis Rigging, Inc.	P	U	Yes				
Kimberly Corbett	Schuler Shook	P	DE	Yes				
Joshua Grossman	Schuler Shook	A	DE					
Dan Culhane	SECOA	P	CP	Yes				
Jerald Kraft	SECOA	A	CP					
Knut Skjonberg	Skjonberg Controls, Inc.	P	CP					X
Monica Skjonberg	Skjonberg Controls, Inc.	A	CP					
Mark Ager	Stage Technologies Group	P	CP	Yes				
Steve Walker	Steve A. Walker & Associates	P	G	Yes				
Richard J. Nix	Steven Schaefer Associates	P	G	Yes				
Kyle Kusmer	Steven Schaefer Associates	A	G					
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR	Yes				
Frank Willard	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR					
Stephen G. Surratt	Texas Scenic Company	P	DR	Yes				
Rick Rosas	Texas Scenic Company	A	DR					
Jerry Gorrell	Theatre Safety Programs	P	G					X
Jeff Wilkowski	Thern, Inc.	P	MP					X
Adrian Forbes-Black	Total Structures Inc.	P	MP					
Theresa Kelley	Total Structures Inc.	A	MP					
Elmer Veith	Total Structures, Inc.	A	MP	Yes				
Dan Lisowski	University of Wisconsin - Madison	P	U	Yes				

Name	Representing	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present/ no vote cast
Keith Bohn	Vitec Group plc	P	MP	Yes				
Will Todd	Vitec Group plc	A	MP					
Pete Happe	Walt Disney Company	P	U	Yes				
Michael Wells	Xtreme Structures and Fabrication	P	MP					
Mark Newlin	Xtreme Structures and Fabrication	A	MP	Yes				
Joseph Champelli	ZFX Flying Inc.	P	CP	Yes				
Stu Cox	ZFX Flying Inc.	A	CP					
Totals				39	0	2	0	14

	Yes	Yes with comments	No with reasons	Abstain	Not present/no vote cast	Totals
CP	9	0	1	0	1	11
MP	7	0	0	0	2	9
DR	8	0	0	0	0	8
U	9	0	0	0	3	12
G	4	0	1	0	7	12
DE	2	0	0	0	1	3
Totals	39	0	2	0	14	55

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

Public review report. See E1-6-2_SvnthRvwCmmnts.pdf. Now what do we do?

Dan Culhane reported on the progress. He said that the task group wants reassurance on the single-brake versus double-brake issue. Rocky Paulson said in all his years of experience he has never had a brake fail. There was further discussion of records of brake failure.

By a show of hands, the working group indicated that it did not feel that double brakes should be mandatory.

6.6 BSR E1.6-3, Safe Use of Electric Chain Hoists in the Entertainment Industry & BSR E1.6-4, Control of Electric Chain Hoists in the Entertainment Industry

Pete Happe reported that the E1.6-3 task group had agreed to have a meeting at the USITT booth Friday 11 March to agree on a way forward.

Peter Herrmann spoke in favor of more general references between the E1.6-3 and E1.6-4 documents, so they are not so tightly linked.

Eddie Kramer moved that E1.6-4 be offered for public review. The motion was seconded. The motion was approved by the required supermajority on a roll call ballot.

Name	Representing	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present/ no vote cast
Woody Pyeatt	A V Pro, Inc.	P	DR	Yes				
Ethan William Gilson	Advanced Lighting and Production Services	P	U	Yes				

Name	Representing	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present/ no vote cast
William Bradburn	Aerial Arts, Inc.	P	U					X
Wendy Holt	Alliance of Motion Picture and Television Producers	P	G	Yes				
William Conner	Amer. Society of Theatre Consultants	P	DE					
R. Duane Wilson	Amer. Society of Theatre Consultants	A	DE	Yes				
James Niesel	Arup	P	G					X
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G					
Donald Hoffend_III	Avista Designs, LLC	A	G	Yes				
Charlie Weiner	Charlie Weiner	P	U					X
Daniel J. Clark	Clark-Reder Engineering, Inc.	P	G					X
Herb Hart	Columbus McKinnon Corp.	P	MP					
Shawn Sack	Columbus McKinnon Corp.	A	MP	Yes				
Art Zobal	Columbus McKinnon Corp.	A	MP					
Edward A. (Ted) Paget	Daktronics Inc.	P	CP	Yes				
M. Brad Dittmer	Downhome Productions	P	U	Yes				
Harvey Sweet	Electronic Theatre Controls, Inc.	P	MP			No		
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP					
Dana Bartholomew	Fisher Technical Services, Inc.	P	CP	Yes				
Rocky Paulson	Freeman Companies	P	DR	Yes				
John Ringelman	Freeman Companies	A	DR					
Joseph McGeough	Foy Invenerprises, Ind	P	CP	Yes				
Miriam Paschetto	Geiger Engineers	P	G					X
Reid Neslage	H & H Specialties Inc.	P	MP	Yes				
Ed Garstkiewicz	Harting KGAA	P	G					X
Howard Forryan	Harting KGAA	A	G					
John (Jack) Miller	I Weiss	P	CP	Yes				
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U	Yes				
Roger Lattin	I.A.T.S.E. Local 728	P	U	Yes				
Rod Haney	IATSE Local 891	P	U	Yes				
Peter V. Svitavsky	J.R. Clancy Inc.	P	CP	Yes				
Thomas S. Young	J.R. Clancy, Inc.	A	CP					
Rodney F. Kaiser	J.R. Clancy, Inc.	A	CP					
Mike Garl	James Thomas Engineering, Inc.	P	MP	Yes				
Tray Allen	James Thomas Engineering, Inc.	A	MP					
Greg Herald	Kleege Industries	P	U	Yes				
William Beautyman	Limelight Productions, Inc.	P	DR	Yes				

Name	Representing	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present/ no vote cast
Bob Medve	Limelight Productions, Inc.	A	DR					
William B. Gorlin	M.G. McLaren, P.C.	P	G	Yes				
Martin Moore	Martin Moore	I	G					X
Vincent J. Cannavale	Motion Laboratories	P	CP					
Peter Herrmann	Motion Laboratories	A	CP	Yes				
David Herrmann	Motion Laboratories	A	CP					
Donald Halchak	Mountain Productions Inc.	P	DR	Yes				
Marty Wesstrom	Mountain Productions Inc.	A	DR					
Tim Hansen	Oasis Stage Werks	P	DR	Yes				
Spencer Brown	Oasis Stage Werks	A	DR					
Pat Grenfell	PjDeZyNeS	I	DE					X
Ron Bonner	PLASA EU	P	G					X
Orestes Mihaly	PRG	P	DR	Yes				
Shawn Nolan	PRG	A	DR					
Rick Montgomery	R&M Materials Handling	P	MP					X
Troy Post	R&M Materials Handling	A	MP					
Daniel Lynn Houser	Real Rigging Solutions, LLC	P	U					X
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	A	U					
Bruce Darden	Rigging Innovators, Inc.	P	CP	Yes				
Bill Sapsis	Sapsis Rigging, Inc.	P	U	Yes				
Kimberly Corbett	Schuler Shook	P	DE				Abstain	
Joshua Grossman	Schuler Shook	A	DE					
Dan Culhane	SECOA	P	CP	Yes				
Jerald Kraft	SECOA	A	CP					
Knut Skjonberg	Skjonberg Controls, Inc.	P	CP					X
Monica Skjonberg	Skjonberg Controls, Inc.	A	CP					
Mark Ager	Stage Technologies Group	P	CP	Yes				
Steve Walker	Steve A. Walker & Associates	P	G	Yes				
Richard J. Nix	Steven Schaefer Associates	P	G	Yes				
Kyle Kusmer	Steven Schaefer Associates	A	G					
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR	Yes				
Frank Willard	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR					
Stephen G. Surratt	Texas Scenic Company	P	DR	Yes				
Rick Rosas	Texas Scenic Company	A	DR					
Jerry Gorrell	Theatre Safety Programs	P	G					X
Jeff Wilkowski	Thern, Inc.	P	MP					X

Name	Representing	Voting status	Int. cat.	Yes	Yes with comments	No	Abstain	Not present/ no vote cast
Adrian Forbes-Black	Total Structures Inc.	P	MP					
Theresa Kelley	Total Structures Inc.	A	MP					
Elmer Veith	Total Structures, Inc.	A	MP	Yes				
Dan Lisowski	University of Wisconsin - Madison	P	U				Abstain	
Keith Bohn	Vitec Group plc	P	MP	Yes				
Will Todd	Vitec Group plc	A	MP					
Pete Happe	Walt Disney Company	P	U	Yes				
Michael Wells	Xtreme Structures and Fabrication	P	MP					
Mark Newlin	Xtreme Structures and Fabrication	A	MP	Yes				
Joseph Champelli	ZFX Flying Inc.	P	CP	Yes				
Stu Cox	ZFX Flying Inc.	A	CP					
Totals								

	Yes	Yes with comments	No with reasons	Abstain	Not present/no vote cast	Totals
CP	10	0	0	0	1	11
MP	6	0	1	0	2	9
DR	8	0	0	0	0	8
U	8	0	0	1	3	12
G	5	0	0	0	7	12
DE	1	0	0	1	1	3
Totals	38	0	1	2	14	55

The document had previously been approved for public review by the TSC at its October 2010 meeting.

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

Report on TSC reaffirmation vote and progress toward submission to ANSI.

The TSC reaffirmed it. It needs to be submitted to ANSI, reported Karl Ruling.

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

Report on TSC reaffirmation vote and progress toward submission to ANSI.

Ruling reported that Martin Moore had cast a No vote, which has triggered a recirculation of his reasons, an extension of the ballot period for 21 days to allow the voters to consider his reasons and to change their votes if they wish, and kept the TSC from voting on the motion at its meeting earlier today. If the vote stays overwhelmingly Yes, the TSC will consider the motion at its July meeting.

6.9 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 moved that the revised E1.21 be offered for public review. The motion was seconded. There was discussion. The motion will be decided by letter ballot, to be issued after Karl Ruling receives the latest version of BSR E1.21 from Bohn.

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

No news or action.

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

Progress report. Written comments had been requested from the working group by Rocky Paulson.

Rocky Paulson reported that a draft should be ready for a public review vote in July. He said he had hoped to offer more practical suggestions for solving PFAS problems in the document, but that doesn't seem to be possible.

7 New business

7.1 Live performer flying standard proposal

See TSP_ProjReq-LivePerfFlying-20110221.pdf and LivePerfFlyingDraftScope.pdf.

Eddie Kramer moved that the project be approved. The motion was seconded and then approved with a unanimous show of hands.

The following task group appointed by Bill Sapsis:

William Gorlin--task group leader
Joseph McGeough
Joe Champelli
Orestes Mihaly
Mark Ager
Dana Bartholemew
Rod Haney
Dan Lisowski

7.2 Other new business

None.

8 Other business and announcements

Rocky Paulson noted the recent passing of Chip Foody, a well-known electrician and rigger.

9 Schedule for future meetings

Bill Sapsis announced that the next meeting is scheduled for the afternoon of Thursday, 21 July 2011, at the Marriott Solana in Westlake, TX.

10 Adjournment

Ted Paget moved that the meeting adjourn. The motion was seconded. The motion was approved by acclamation. Bill Sapsis declared the meeting adjourned at 21:07.

Working Group Membership as of 4 May 2011
sorted by name

Name	Representing	Voting status	Int. cat.
Mark Ager	Stage Technologies Group	P	CP
Tray Allen	James Thomas Engineering, Inc.	A	MP
Brent Armstong	Brent Armstong	O	U
Warren A. Bacon	Warren A. Bacon	O	U
Rinus Bakker	Rhino Rigs B.V.	O	G
Robert Barbagallo	Solotech Inc.	O	DR
Roger Barrett	Star Events Group Ltd.	O	DR
Dana Bartholomew	Fisher Technical Services, Inc.	P	CP
F. Robert Bauer	F.R. Bauer & Associates, LLC	O	G
William Beautyman	Limelight Productions, Inc.	P	DR
Maria Bement	MGM Grand	O	U
Roy Bickel	Roy Bickel	O	G
Lee J. Bloch	Bloch Design Group, Inc.	O	G
Keith Bohn	Vitec Group plc	P	MP
Ron Bonner	PLASA EU	P	G
William Bradburn	Aerial Arts, Inc.	P	U
Louis Bradfield	Louis Bradfield	O	U
Buddy Braile	Bestek Lighting & Staging	O	U
Andre Broucke	Andre Broucke	O	G
Spencer Brown	Oasis Stage Werks	A	DR
David M. Campbell	Geiger Engineers	O	G
Vincent J. Cannavale	Motion Laboratories	P	CP
Michael J. Carnaby	Mikan Theatricals	O	DR
Joseph Champelli	ZFX Flying Inc.	P	CP

Name	Representing	Voting status	Int. cat.
Daniel J. Clark	Clark-Reder Engineering, Inc.	P	G
Ian Coles	Total Structures, Inc.	O	MP
Gregory C. Collis	I.A.T.S.E. Local 16	O	G
William Conner	Amer. Society of Theatre Consultants	P	DE
Kimberly Corbett	Schuler Shook	P	DE
Stu Cox	ZFX Flying Inc.	A	CP
Brandon Creel	Starlite Productions	O	DR
Dan Culhane	SECOA	P	CP
Bruce Darden	Rigging Innovators, Inc.	P	CP
Randall W. A. Davidson	Risk International & Associates, Inc.	O	U
Robert Dean	ZFX Flying Inc.	O	DR
François Deffarges	Nexo	O	MP
Cristina Delboni	Feeling Structures	O	MP
Michael Dileo	IATSE Local 481	O	U
M. Brad Dittmer	Downhome Productions	P	U
Noga Eilon-Bahar	Eilon Engineering Industrial Weighing Systems	O	MP
James B. Evans	Mountain Productions Inc.	O	DR
Philip Fleming	PSAV Presentation Services	O	DR
Jim Fletcher	American Sling Company, Inc.	O	MP
Adrian Forbes-Black	Total Structures Inc.	P	MP
Howard Forryan	Harting KGAA	A	G
Tim Franklin	Theta-Consulting	O	G
Douglas Franz	QVC Network	O	U
Mike Garl	James Thomas Engineering, Inc.	P	MP
Ed Garstkiewicz	Harting KGAA	P	G
Ethan William Gilson	Advanced Lighting and Production Services	P	U

Name	Representing	Voting status	Int. cat.
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	O	U
Rand Goddard	W.E. Palmer Co.	O	CP
Reuben Goldberg	Technic Services	O	U
William B. Gorlin	M.G. McLaren, P.C.	P	G
Jerry Gorrell	Theatre Safety Programs	P	G
Thomas M. Granucci	San Diego State University	O	U
Pat Grenfell	PjDeZyNeS	I	DE
Joshua Grossman	Schuler Shook	A	DE
Donald Halchak	Mountain Productions Inc.	P	DR
Rod Haney	IATSE Local 891	P	U
Tim Hansen	Oasis Stage Werks	P	DR
Pete Happe	Walt Disney Company	P	U
Greg Hareld	Kleege Industries	P	U
Dean Hart	Freeman Companies	O	U
Herb Hart	Columbus McKinnon Corp.	P	MP
Ben Hayes	Freedom Flying	O	G
Marc Hendriks	Prolyte	O	MP
Peter Herrmann	Motion Laboratories	A	CP
David Herrmann	Motion Laboratories	A	CP
Ted Hickey	OAP Audio Products	O	MP
Chris Higgs	Total Solutions Group	O	G
Wendy Holt	Alliance of Motion Picture and Television Producers	P	G
Daniel Lynn Houser	Real Rigging Solutions, LLC	P	U
Donald Hoffend_III	Avista Designs, LLC	A	G
Wes Jenkins	Down Stage Right Industries	O	CP
Peter Johns	Total Structures, Inc.	O	MP

Name	Representing	Voting status	Int. cat.
Ted Jones	Chicago Spotlight, Inc.	O	U
Kent H. Jorgensen	IATSE Local 80	O	G
Robert A. Grenier_Jr.	Ocean State Rigging Systems Inc.	O	DR
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G
Gary Justesen	Oasis Stage Werks	O	DR
John Kaes	John Kaes	O	U
Rodney F. Kaiser	J.R. Clancy, Inc.	A	CP
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
JoAnna Kamorin-Lloyd	Vincent Lighting Systems	O	U
Bradford A. Kegel	National Production Services Inc.	O	U
Theresa Kelley	Total Structures Inc.	A	MP
Michael Keppler	Vitec Group	O	MP
Nevin Kleege	Kleege Industries	O	U
Jerald Kraft	SECOA	A	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Kyle Kusmer	Steven Schaefer Associates	A	G
Ken Lager	Pook, Diemont & Ohl, Inc.	O	DR
Jon Lagerquist	South Coast Repertory	O	U
Roger Lattin	I.A.T.S.E. Local 728	P	U
Eugene Leitermann	Theatre Projects Consultants, Inc.	O	G
Jon Lenard	Applied Electronics	O	MP
John Van Lennep	Theatrix Inc.	O	DR
Mylan Lester	Creation Logics Ltd.	O	U
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Dan Lisowski	University of Wisconsin - Madison	P	U
Baer Long	Act 1 Rigging Inc.	O	G

Name	Representing	Voting status	Int. cat.
Dennis J. Lopez	Automatic Devices Co.	O	MP
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	A	U
Gary Mardling	Kish Rigging	O	DR
Chuck McClelland	Jeamar Winches Inc.	O	MP
Joseph McGeough	Foy Inventionerprises, Inc.	P	CP
Richard C. Mecke	Texas Scenic Company	O	DR
Bob Medve	Limelight Productions, Inc.	A	DR
Orestes Mihaly	Production Resource Group	P	DR
Hank Miller	W.E. Palmer Co.	O	CP
John (Jack) Miller	I Weiss	P	CP
Shaun Millington	SEW-Eurodrive, Inc.	O	MP
Timothy Mills	Geiger Engineers	O	G
Scott Mohr	R&R Cases and Cabinets	O	G
Rick Montgomery	R&M Materials Handling	P	MP
Martin Moore	Martin Moore	I	G
John "Andrew" Munro	animaenagerie	O	U
Bob Murphy	Occams Razor Technical Services	O	G
Reid Neslage	H & H Specialties Inc.	P	MP
Mark Newlin	Xtreme Structures and Fabrication	A	MP
Rikki Newman	Rikki Newman	O	U
Ed Nicholas	Theatrical Lighting Systems, Inc.	O	DR
James Niesel	Arup	P	G
Richard J. Nix	Steven Schaefer Associates	P	G
Shawn Nolan	Production Resource Group	A	DR
Tracy Nunnally	Northern Illinois University	O	U
Howard R. Ott	D.E.O. Associates, Inc.	O	G

Name	Representing	Voting status	Int. cat.
Edward A. (Ted) Paget	Daktronics Inc.	P	CP
Miriam Paschetto	Geiger Engineers	P	G
Michael Patterson	Pook Diemont & Ohl, Inc.	O	CP
Rocky Paulson	Freeman Companies	P	DR
Todd Petersen	Mixed Productions	O	U
G. Anthony Phillips	I.A.T.S.E. Local 16	O	U
Troy Post	R&M Materials Handling	A	MP
Woody Pyeatt	A V Pro, Inc.	P	DR
Michael Reed	Reed Rigging, Inc.	O	DR
Mark Riddlesperger	LA ProPoint, Inc.	O	CP
John Ringelman	Freeman Companies	A	DR
Jean-Philippe Robitaille	Show Distribution Group, Inc.	O	DR
Rick Rosas	Texas Scenic Company	A	DR
Shawn Sack	Columbus McKinnon Corp.	A	MP
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	O	G
Peter "Punch" Christian Schmidtke	Hollywood Lighting, Inc.	O	DR
Monica Skjonberg	Skjonberg Controls, Inc.	A	CP
Knut Skjonberg	Skjonberg Controls, Inc.	P	CP
John C. Snook	Thermotex Industries Inc.	O	CP
Michael L. Savage, Sr.	Middle Dept. Inspection Agency, Inc.	O	G
Rob Stevenson	SEW-Eurodrive, Inc.	O	MP
Joachim Stoecker	CAMCO GmbH	O	MP
Stephen G. Surratt	Texas Scenic Company	P	DR
Andy Sutton	AFX UK Ltd.	O	U
Peter V. Svitavsky	J.R. Clancy Inc.	P	CP

Name	Representing	Voting status	Int. cat.
Harvey Sweet	Electronic Theatre Controls, Inc.	P	MP
Katherine Tharp	LA ProPoint, Inc.	O	CP
Will Todd	Vitec Group plc	A	MP
Elmer Veith	Total Structures, Inc.	A	MP
Steve Walker	Steve A. Walker & Associates	P	G
Bill Waters	Conductix-Wampfler	O	MP
Charlie Weiner	Charlie Weiner	P	U
Michael Wells	Xtreme Structures and Fabrication	P	MP
Marty Wesstrom	Mountain Productions Inc.	A	DR
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	O	U
Jeff Wilkowski	Thern, Inc.	P	MP
Frank Willard	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
R. Duane Wilson	Amer. Society of Theatre Consultants	A	DE
Jiantong Wu	Beijing Special Engineering Design & Research Institute	O	G
Thomas S. Young	J.R. Clancy, Inc.	A	CP
Art Zobal	Columbus McKinnon Corp.	A	MP

Voting status

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

Interest categories

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