

Minutes
Rigging Working Group
Thursday, 21 July 2011
Marriott Solana
Westlake, TX

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; ALPS (Advanced Lighting and Production Services); P; U
William Bradburn; Aerial Arts, Inc.; P; U
R. Duane Wilson; George C. Izenour Associates, representing ASTC; A; DE
James Niesel; Arup; P; DE
Donald Hoffend_III; Avista Designs, LLC; A; G
Charlie Weiner; Charlie Weiner; P; U
Herb Hart; Columbus McKinnon Corp.; P; MP
Art Zabal; Columbus McKinnon Corp.; A; MP
Harvey Sweet; Electronic Theatre Controls, Inc.; P; MP
Michael Lichter; Electronic Theatre Controls, Inc.; A; MP
Scott Fisher; Fisher Technical Services, Inc.; A; CP
Joseph McGeough; Flying by Foy (Foy Invention Enterprises, 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
Ed Garstkiewicz; Harting Inc., North America (Harting KGAA); P; G
John (Jack) Miller; I Weiss; P; CP
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Rod Haney; IATSE Local 891; P; U
Peter V. Svitavsky; J.R. Clancy Inc.; P; CP
Mike Garl; James Thomas Engineering, Inc.; P; MP
William B. Gorlin; McLaren Engineering Group; P; G
Vincent J. Cannavale; Motion Laboratories; P; CP
Peter Herrmann; Motion Laboratories; A; CP
Tracy Nunnally; Northern Illinois University ; O; U
Ron Bonner; PLASA Technical Resources Office (PLASA EU); P; G
Orestes Mihaly; Production Resource Group ; P; DR
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.; O; CP
Monica Skjonberg; Skjonberg Controls, Inc.; O; CP
Mark Ager; Stage Technologies (Stage Technologies Group); 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
Jeff Wilkowski; Thern, Inc.; P; MP
Dan Lisowski; Dept. Of Theatre and Drama (University of Wisconsin - Madison); P; U

Will Todd; Tomcat USA, Inc. (Vitec Group plc); A; MP
Pete Happe; Walt Disney Imagineering (Walt Disney Company); P; U
Joseph Champelli; ZFX Flying Inc.; P; CP

Visitors: Dae-Kon Oh; Korean Evaluation Institute of Industrial Technology
Kang Tae Gyu; Electronics and Telecommunications Research Institute
Sang-Kyu Lim; Electronics and Telecommunications Research Institute

1 Opening remarks

Bill Sapsis called the meeting to order at 13:01. He welcomed all.

2 Attendance and membership

2.1 Introduction of those present

2.2 Circulation of attendance sign-in sheet

A pink sign-in sheet was circulated while those present introduced themselves.

2.3 Call for quorum

Sapsis asked voting members to raise a hand. He counted the upraised hands and then announced that a quorum was present.

2.4 Requirements for membership

Sapsis reminded the assembly that working group 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:

Daniel J. Clark; Clark-Reder Engineering, Inc.

Martin Moore

Daniel Lynn Houser & Aleksandrs Lupinskis; Real Rigging Solutions, LLC

The above listed voters were not present. Sapsis announced that they were now observer members due to their lack of attendance.

2.6 Processing of new membership requests

The following applications had been received:

Darren Lucier; North Guard Fall protection Inc.; North Guard Fall protection Inc.; Principal; U

Derek Moon; J.R. Clancy Inc.; J.R. Clancy Inc.; Observer; CP

Joseph Jeremy; Niscon Inc.; Niscon Inc.; Observer; CP

Scott Fisher; Fisher Technical Services, Inc.; Fisher Technical Services, Inc.; Alternate; CP

Steve Nelson; 3dx Scenic and 3dx FlameCoat; Educational Theatre Association; Observer; U

William Ian Auld; Auld Entertainment; Auld Entertainment; Principal; U

Robert Young; Arup; Alternate; DE

Don Dimitroff; Tomcat USA (Vitec Group); Alternate; MP

Dan Culhane moved that the applications be accepted, with the exception that those applying as principal voters but not present be accepted as observer members. (Darren Lucier and William Ian Auld) The motion was seconded and then approved with a show of hands.

2.7 Consensus body

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
William Conner	Amer. Society of Theatre Consultants	P	DE
R. Duane Wilson	Amer. Society of Theatre Consultants	A	DE
James Niesel	Arup	P	DE
Robert Young	Arup	A	DE
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G
Donald Hoffend_III	Avista Designs, LLC	A	G
Charlie Weiner	Charlie Weiner	P	U
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
Harvey Sweet	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Dana Bartholomew	Fisher Technical Services, Inc.	P	CP
Scott Fisher	Fisher Technical Services, Inc.	A	CP
Joseph McGeough	Foy Inventerprises, 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	P	CP
Rodney F. Kaiser	J R Clancy	A	CP
Thomas S. Young	J R Clancy	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
Vincent J. Cannavale	Motion Laboratories	P	CP
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

Name	Representing	Voting status	Int. cat.
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
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
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
Will Todd	Vitec Group plc	A	MP
Don Dimitroff	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 votes	50	
	Votes by interest categories	9	MP
		10	CP
		8	DR
		10	U
		9	G
		4	DE

3 Approval of minutes from the previous meeting

See the draft minutes of the March 2011 meeting, RIGmin03-2011.pdf.

Eddie Kramer moved that the March 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 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."

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

Eddie Kramer moved that the draft 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 revision progress. See BSR_E1-1-201X_2004-2029r3.pdf. Dan Houser, Rocky Paulson, and Bill Sapsis.

The draft document that was presented to the working group was discussed and edited, making an r4 version.

Rocky Paulson moved that it be offered for public review. The motion was seconded and then approved with a roll call ballot.

Name	Representing	Voting status	Int. Cat.	Yes	No	Abstain
Woody Pyeatt	A V Pro Inc.	P	DR	1		
Ethan William Gilson	Advanced Lighting and Production Services	P	U	1		
William Bradburn	Aerial Arts Inc.	P	U	1		
Wendy Holt	Alliance of Motion Picture and Television Producers	P	G			
William Conner	Amer. Society of Theatre Consultants	P	DE			
R. Duane Wilson	Amer. Society of Theatre Consultants	A	DE	1		
Robert Young	Arup	A	DE			
James Niesel	Arup	P	DE	1		
Donald A. Hoffend_Jr.	Avista Designs LLC	P	G			
Donald Hoffend_III	Avista Designs LLC	A	G	1		
Charlie Weiner	Charlie Weiner	P	U	1		
Herb Hart	Columbus McKinnon Corp.	P	MP	1		

Name	Representing	Voting status	Int. Cat.	Yes	No	Abstain
Shawn Sack	Columbus McKinnon Corp.	A	MP			
Art Zobal	Columbus McKinnon Corp.	A	MP			
Edward A. (Ted) Paget	Daktronics Inc.	P	CP	1		
Harvey Sweet	Electronic Theatre Controls Inc.	P	MP	1		
Michael Lichter	Electronic Theatre Controls Inc.	A	MP			
Scott Fisher	Fisher Technical Services Inc.	A	CP	1		
Dana Bartholomew	Fisher Technical Services Inc.	P	CP			
Joseph McGeough	Foy Inventerprises Inc.	P	CP	1		
Rocky Paulson	Freeman Companies	P	DR	1		
John Ringelman	Freeman Companies	A	DR			
Miriam Paschetto	Geiger Engineers	P	G	1		
Reid Neslage	H & H Specialties Inc.	P	MP	1		
Ed Garstkiewicz	Harting KGAA	P	G	1		
Howard Forryan	Harting KGAA	A	G			
John (Jack) Miller	I Weiss	P	CP	1		
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U			1
Roger Lattin	I.A.T.S.E. Local 728	P	U	1		
Rod Haney	IATSE Local 891	P	U	1		
Peter V. Svitavsky	J.R. Clancy Inc.	P	CP	1		
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	1		
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	1		
Vincent J. Cannavale	Motion Laboratories	P	CP	1		
Peter Herrmann	Motion Laboratories	A	CP			
David Herrmann	Motion Laboratories	A	CP			
Donald Halchak	Mountain Productions Inc.	P	DR			
Marty Weststrom	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	1		
Orestes Mihaly	Production Resource Group	P	DR	1		
Shawn Nolan	Production Resource Group	A	DR			
Rick Montgomery	R&M Materials Handling	P	MP	1		
Troy Post	R&M Materials Handling	A	MP			
Bruce Darden	Rigging Innovators Inc.	P	CP	1		
Bill Sapsis	Sapsis Rigging Inc.	P	U	1		
Kimberly Corbett	Schuler Shook	P	DE	1		
Joshua Grossman	Schuler Shook	A	DE			
Dan Culhane	SECOA	P	CP	1		
Jerald Kraft	SECOA	A	CP			
Mark Ager	Stage Technologies Group	P	CP	1		
Steve Walker	Steve A. Walker & Associates	P	G	1		
Richard J. Nix	Steven Schaefer Associates	P	G	1		
Kyle Kusmer	Steven Schaefer Associates	A	G			
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co. Inc.	P	DR	1		

Name	Representing	Voting status	Int. Cat.	Yes	No	Abstain
Frank Willard	Syracuse Scenery & Stage Lighting Co. Inc.	A	DR			
Stephen G. Surratt	Texas Scenic Company	P	DR	1		
Rick Rosas	Texas Scenic Company	A	DR			
Jerry Gorrell	Theatre Safety Programs	P	G	1		
Jeff Wilkowski	Thern Inc.	P	MP	1		
Adrian Forbes-Black	Total Structures Inc.	P	MP			
Theresa Kelley	Total Structures Inc.	A	MP			
Elmer Veith	Total Structures Inc.	A	MP			
Dan Lisowski	University of Wisconsin - Madison	P	U	1		
Keith Bohn	Vitec Group plc	P	MP			
Will Todd	Vitec Group plc	A	MP	1		
Don Dimitroff	Vitec Group plc	A	MP			
Pete Happe	Walt Disney Company	P	U	1		
Michael Wells	Xtreme Structures and Fabrication	P	MP			
Mark Newlin	Xtreme Structures and Fabrication	A	MP			
Joseph Champelli	ZFX Flying Inc.	P	CP	1		
Stu Cox	ZFX Flying Inc.	A	CP			
Totals		50		41	0	1

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

Public review comments. See E1-2PubRvw30May2011Cmmnts.pdf.

Dan Culhane moved that a task group be appointed to draft possible comment resolutions. The motion was seconded and then approved with a show of hands.

Bill Sapsis appointed a task group of Mike Garl, Will Todd, and Miriam Paschetto.

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

It's published. No news of action.

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

Twenty-eight comments had been received, reported Harvey Sweet. The task group will draft resolutions shortly after this meeting.

Harvey Sweet moved that the draft standard and draft comment resolutions documents that will be produced by the task group will be voted on by letter ballot for acceptance and for public review. The motion was seconded and then approved with a show of hands.

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

Consideration of seventh review comment resolutions and revised draft standard. See E1-6-2_SvnthRvwResols2011-06-10.pdf and E1_6-2_2005-2040r8_2011-06-09.pdf.

Dan Culhane spoke. He moved that the draft comment resolutions be accepted and the revised standard offer for public review. The motion was seconded. The motion was approved by a supermajority with a show of hands. There was no dissent.

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

Consideration of resolutions and revised draft standard. See E1-6-3_1stRvwResols.pdf and BSRE1-6-3_2008-2019r4.pdf.

Peter Happe moved that the draft comment resolutions be accepted and the revised standard offer for public review. The motion was seconded. The motion was approved by a supermajority with a show of hands. There was no dissent.

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

Report on review comments. See E1-6-4_FirstRvwCmmntSummary.pdf. Next step?

Pete Herrmann said that the task group will meet to work on drafting comment resolutions.

6.8 ANSI E1.8-2005 (R201x), Entertainment Technology--Loudspeaker Enclosures Intended for Overhead Suspension--Classification, Manufacture and Structural Testing

Responses to comments and reasons. Per ANSI's *Essential Requirements*, the standard cannot be reaffirmed until each objector is "advised in writing (including electronic communications) of the disposition of the objection and the reasons therefor." See the draft Resols_RWG_E1-8_Ballot_2010-2027r1.pdf. The history of E1.8's development is available in E1-8_2005Summary.zip, which is on the PLASA website at <http://tsp.plasa.org/tsp/meetingfiles/rwg/listfiles.php>. The E1-8Summary.pdf file in the zipped folder is a narrative of the standard's development with links to all the supporting documents. The supporting documents need to be in the same folder as the summary document for the links to work properly.

Chris Kaiser moved that the standard be withdrawn. The motion was seconded. There was discussion. The motion failed on show of hands.

Dan Culhane moved that E1.8 be revised rather than reaffirmed. The motion was seconded. The motion was approved by a supermajority with a show of hands. There was no dissent.

Jim Niesel and Richard Nix volunteered to work on the standard's revision. Sapsis appointed them to the task group.

6.9 ANSI E1.15-2006 (R201x), Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies

Response to negative vote reasons and comment. The standard cannot be reaffirmed until the objector is "advised in writing (including electronic communications) of the disposition of the objection and the reasons therefor." See the draft resolutions Resols_RWG_ballot2011-2005r1_Results.pdf.

Dan Culhane moved that we approve the proposed draft resolutions. The motion was seconded and then approved by a supermajority with a show of hands.

6.10 BSR E1.21-201x, Temporary Ground-Supported Overhead Structures Used To Cover Stage Areas and Support Equipment in the Production of Outdoor Entertainment Events

Consideration of negative votes on the motion to offer BSR E1.21-201x for a first public review and possible simple resolutions to some of them. See E1-21BallotResultsEmailTo_RWG.pdf, E1-21WG_BallotResultsRig_2011-2011r1.pdf, and BSR_E1-21-201x_2010-2025r3a.pdf.

Keith Bohn had offered the following comments on the negative votes:

2.8/2.12-Payload vs. Live Load: The nuance here is that "payload" is intended to be specific to the equipment that is supported by the structure (audio, lighting, etc.), whereas live load is the more encompassing definition to include everything beyond the self-weight of the structure. The term live load is only used in (3) locations in the document. My suggestion would be to keep "payload" throughout the document and change those (3) occurrences simply to "load".

3.4.4-"but not limited to" (operating limits): As the scope of the document encompasses all outdoor entertainment structures, it is not practical to create an all inclusive list, however, it is important to provide what those minimum operating limits

include (i.e. wind, payload, etc.) especially those that tend to be relevant to the vast majority of structures included in the scope of the document.

3.5.5 – “loadings”: Change to “Loading” is fine

Negative votes were considered and the document revised to make a 3b version.

Mike Garl moved that the revised E1.21 draft standard be offered for public review. The motion was seconded and then approved by a supermajority with a show of hands. There was one abstention, and no dissent. All the rest of the votes were Yes.

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

Consideration of draft standard and next step. See BSRE1-39_2009-2017r0-7.pdf.

The draft of BSR E1.39 was discussed. Rocky Paulson moved that the document be offered for public review. The motion was seconded. The motion was approved by a supermajority with a show of hands. All the votes were in favor except for three abstentions.

6.13 BSR E1.43 - 201x, Live performer flying effect standard

Bill Gorlin reported on the first meeting of the task group. They spent most of the time discussing what flying is in the context of this project. They have decided to focus on addressing the hazards for the performers and the people below, rather than focusing on the technology, and plan to exclude lifts from the standard. They also discussed rescue scenarios. The task group will update the scope and then make a TOC outline. They plan to have a schedule for making progress by the October meeting.

7 New business

7.1 Automation cue file format project proposal

See TSP_ProjectRequest-Showfiles-5-3-2011_R2.PDF.

Michael Lichter explained the project. The people who make up the de facto task group on this are Michael Lichter, Derek Moon, Ted Paget, Steve Surratt, Mark Ager, and Scott Fisher.

Eddie Kramer moved that we recommend this project for approval to the TSC. The motion was seconded and then approved with a show of hands. All voted Yes, except for one abstention.

7.2 Other new business

There was a discussion of how our standards can become done. When we stop making substantive changes in response to comments, they are finished.

8 Other business and announcements

Ron Bonner talked about the frequency of chain hoists failing, which seems to be very low. He asked if it would be okay to have people fill out a questionnaire if one is sent to the group. The consensus was that sending a questionnaire would be acceptable.

Reid Neslage reported that George Thomas Howard had recently passed away. Neslage described him as a mentor and a friend. He asked for a moment of silence, which was granted.

9 Schedule for future meetings

Sapsis announced that the next meeting is scheduled for the evening of Wednesday, 26 October 2011 at the Hilton Orlando in Orlando, Florida.

10 Adjournment

Eddie Kramer moved that the meeting adjourn. The motion was seconded and then approved by acclamation. Bill Sapsis declared the meeting adjourned at 17:03.

Working Group Membership as of 29 September 2011

Name	Company	Representing	Voting status	Int. cat.
Mark Ager	Stage Technologies	Stage Technologies Group	P	CP
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP
Brent Armstong	Brent Armstong	Brent Armstong	O	U
William Ian Auld	Auld Entertainment	Auld Entertainment	O	U
Warren A. Bacon	Warren A. Bacon	Warren A. Bacon	O	U
Rinus Bakker	Rhino Rigs B.V.	Rhino Rigs B.V.	O	G
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Roger Barrett	Star Events Group Ltd.	Star Events Group Ltd.	O	DR
Dana Bartholomew	Fisher Technical Services, Inc.	Fisher Technical Services, Inc.	P	CP
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	O	G
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Maria Bement	MGM Grand	MGM Grand	O	U
Roy Bickel	Roy Bickel	Roy Bickel	O	G
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Keith Bohn	Tomcat USA, Inc.	Vitec Group plc	P	MP
Ron Bonner	PLASA Technical Resources Office	PLASA EU	P	G
William Bradburn	Aerial Arts, Inc.	Aerial Arts, Inc.	P	U
Louis Bradfield	Louis Bradfield	Louis Bradfield	O	U
Buddy Braile	Bestek Lighting & Staging	Bestek Lighting & Staging	O	U
André Broucke	André Broucke	André Broucke	O	G
Spencer Brown	Oasis Stage Werks	Oasis Stage Werks	A	DR
David M. Campbell	Geiger Engineers	Geiger Engineers	O	G
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	O	DR
Joseph Champelli	ZFX Flying Inc.	ZFX Flying Inc.	P	CP
Daniel J. Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	O	G
Ian Coles	Total Structures, Inc.	Total Structures, Inc.	O	MP
Gregory C. Collis	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	G
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	DE
Kimberly Corbett	Schuler Shook	Schuler Shook	P	DE
Stu Cox	ZFX Flying Inc.	ZFX Flying Inc.	A	CP
Brandon Creel	Starlite Productions	Starlite Productions	O	DR
Dan Culhane	SECOA	SECOA	P	CP
Bruce Darden	Rigging Innovators, Inc.	Rigging Innovators, Inc.	P	CP
Randall W. A. Davidson	Risk International & Associates, Inc.	Risk International & Associates, Inc.	O	U
Robert Dean	ZFX Flying Inc.	ZFX Flying Inc.	O	DR

Name	Company	Representing	Voting status	Int. cat.
François Deffarges	Nexo	Nexo	O	MP
Cristina Delboni	Feeling Structures	Feeling Structures	O	MP
Michael Dileso	IATSE Local 481	IATSE Local 481	O	U
Don Dimitroff	Tomcat USA, Inc.	Vitec Group plc	A	MP
Noga Eilon-Bahar	Eilon Engineering Industrial Weighing Systems	Eilon Engineering Industrial Weighing Systems	O	MP
James B. Evans	Mountain Productions Inc.	Mountain Productions Inc.	O	DR
Scott Fisher	Fisher Technical Services, Inc.	Fisher Technical Services, Inc.	A	CP
Philip Fleming	PSAV Presentation Services	PSAV Presentation Services	O	DR
Jim Fletcher	American Sling Company, Inc.	American Sling Company, Inc.	O	MP
Adrian Forbes-Black	Total Structures Inc.	Total Structures Inc.	P	MP
Howard Forryan	Harting Ltd.	Harting KGAA	A	G
Tim Franklin	Theta-Consulting	Theta-Consulting	O	G
Douglas Franz	QVC Network	QVC Network	O	U
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G
Ethan William Gilson	ALPS	Advanced Lighting and Production Services	P	U
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	Jay O. Glerum & Associates, Inc.	O	U
Rand Goddard	W.E. Palmer Co.	W.E. Palmer Co.	O	CP
Reuben Goldberg	Technic Services	Technic Services	O	U
William B. Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Thomas M. Granucci	Associated Students, Cox Arena	San Diego State University	O	U
Pat Grenfell	PjDeZyNeS	PjDeZyNeS	I	DE
Joshua Grossman	Schuler Shook	Schuler Shook	A	DE
Donald Halchak	Mountain Productions Inc.	Mountain Productions Inc.	P	DR
Rod Haney	IATSE Local 891	IATSE Local 891	P	U
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U
Greg Hareld	Kleege Industries	Kleege Industries	P	U
Dean Hart	Stage Rigging, Inc.	Freeman Companies	O	U
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Ben Hayes	Freedom Flying	Freedom Flying	O	G
Marc Hendriks	Prolyte	Prolyte	O	MP
Peter Herrmann	Motion Laboratories	Motion Laboratories	A	CP
David Herrmann	Motion Laboratories	Motion Laboratories	A	CP
Ted Hickey	OAP Audio Products	OAP Audio Products	O	MP
Chris Higgs	Total Solutions Group	Total Solutions Group	O	G

Name	Company	Representing	Voting status	Int. cat.
Wendy Holt	AMPTP/CSATF	Alliance of Motion Picture and Television Producers	P	G
Daniel Lynn Houser	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	O	U
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	A	G
Wes Jenkins	Down Stage Right Industries	Down Stage Right Industries	O	CP
Joseph Jeremy	Niscon Inc.	Niscon Inc.	O	CP
Peter Johns	Total Structures, Inc.	Total Structures, Inc.	O	MP
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
Robert A. Grenier_Jr.	Ocean State Rigging Systems Inc.	Ocean State Rigging Systems Inc.	O	DR
Donald A. Hoffend_Jr.	Avista Designs, LLC	Avista Designs, LLC	P	G
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	O	DR
John Kaes	John Kaes	John Kaes	O	U
Rodney F. Kaiser	J.R. Clancy Inc.	Wenger Corp.	A	CP
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
JoAnna Kamorin-Lloyd	Vincent Lighting Systems	Vincent Lighting Systems	O	U
Bradford A. Kegel	National Production Services Inc.	National Production Services Inc.	O	U
Theresa Kelley	Total Structures Inc.	Total Structures Inc.	A	MP
Michael Keppler	Bogen	Vitec Group	O	MP
Nevin Kleege	Kleege Industries	Kleege Industries	O	U
Jerald Kraft	SECOA	SECOA	A	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Kyle Kusmer	Entertainment Structures Group	Steven Schaefer Associates	A	G
Ken Lager	Pook, Diemont & Ohl, Inc.	Pook, Diemont & Ohl, Inc.	O	DR
Jon Lagerquist	South Coast Repertory	South Coast Repertory	O	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Eugene Leitermann	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	O	G
Jon Lenard	Applied Electronics	Applied Electronics	O	MP
John Van Lennep	Theatrix Inc.	Theatrix Inc.	O	DR
Mylan Lester	Creation Logics Ltd.	Creation Logics Ltd.	O	U
Michael Lichter	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP
Dan Lisowski	Dept. Of Theatre and Drama	University of Wisconsin - Madison	P	U
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	O	G
Dennis J. Lopez	Automatic Devices Co.	Automatic Devices Co.	O	MP
Darren Lucier	North Guard Fall protection Inc.	North Guard Fall protection Inc.	O	U
Aleksandrs Lupinskis	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	O	U
Gary Mardling	Kish Rigging	Kish Rigging	O	DR
Chuck McClelland	Jeamar Winches Inc.	Jeamar Winches Inc.	O	MP
Joseph McGeough	Flying by Foy	Foy Inventerprises, Inc.	P	CP

Name	Company	Representing	Voting status	Int. cat.
Richard C. Mecke	Texas Scenic Company	Texas Scenic Company	O	DR
Bob Medve	Limelight Productions, Inc.	Limelight Productions, Inc.	A	DR
Orestes Mihaly	Production Resource Group	Production Resource Group	P	DR
Hank Miller	W.E. Palmer Co.	W.E. Palmer Co.	O	CP
John (Jack) Miller	I Weiss	I Weiss	P	CP
Shaun Millington	SEW-Eurodrive, Inc.	SEW-Eurodrive, Inc.	O	MP
Timothy Mills	Geiger Engineers	Geiger Engineers	O	G
Scott Mohr	R&R Cases and Cabinets	R&R Cases and Cabinets	O	G
Rick Montgomery	R&M Materials Handling	R&M Materials Handling	P	MP
Derek Moon	J.R. Clancy Inc.	Wenger Corp.	O	CP
Martin Moore	Martin Moore	Martin Moore	O	G
John "Andrew" Munro	animaenagerie	animaenagerie	O	U
Bob Murphy	Occams Razor Technical Services	Occams Razor Technical Services	O	G
Steve Nelson	3dx Scenic and 3dx FlameCoat	Educational Theatre Association	O	U
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP
Mark Newlin	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	A	MP
Rikki Newman	Rikki Newman	Rikki Newman	O	U
James Niesel	Arup	Arup	P	DE
Richard J. Nix	Entertainment Structures Group	Steven Schaefer Associates	P	G
Shawn Nolan	Production Resource Group	Production Resource Group	A	DR
Tracy Nunnally	Northern Illinois University	Northern Illinois University	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
Miriam Paschetto	Geiger Engineers	Geiger Engineers	P	G
Michael Patterson	Pook Diemont & Ohl, Inc.	Pook Diemont & Ohl, Inc.	O	CP
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	P	DR
Todd Petersen	Mixed Productions	Mixed Productions	O	U
G. Anthony Phillips	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	U
Troy Post	R&M Materials Handling	R&M Materials Handling	A	MP
Woody Pyeatt	A V Pro, Inc.	A V Pro, Inc.	P	DR
Michael Reed	Reed Rigging, Inc.	Reed Rigging, Inc.	O	DR
Mark Riddlesperger	LA ProPoint, Inc.	LA ProPoint, Inc.	O	CP
John Ringelman	Stage Rigging, Inc.	Freeman Companies	A	DR
Jean-Philippe Robitaille	Show Distribution Group, Inc.	Show Distribution Group, Inc.	O	DR
Rick Rosas	Texas Scenic Company	Texas Scenic Company	A	DR
Shawn Sack	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	Scheu Consulting Services, Inc.	O	G

Name	Company	Representing	Voting status	Int. cat.
Peter Christian Schmidtke	Hollywood Lighting Services, Inc.	Hollywood Lighting, Inc.	O	DR
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP
Knut Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	O	CP
Michael L. Savage, Sr.	Middle Dept. Inspection Agency, Inc.	Middle Dept. Inspection Agency, Inc.	O	G
Rob Stevenson	SEW-Eurodrive, Inc.	SEW-Eurodrive, Inc.	O	MP
Joachim Stoecker	CAMCO GmbH	CAMCO GmbH	O	MP
Stephen G. Surratt	Texas Scenic Company	Texas Scenic Company	P	DR
Andy Sutton	AFX UK Ltd.	AFX UK Ltd.	O	U
Peter V. Svitavsky	J.R. Clancy Inc.	Wenger Corp.	P	CP
Harvey Sweet	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Katherine Tharp	LA ProPoint, Inc.	LA ProPoint, Inc.	O	CP
Will Todd	Tomcat USA, Inc.	Vitec Group plc	A	MP
Elmer Veith	Total Structures - Eastern US Sales Office	Total Structures, Inc.	A	MP
Steve Walker	Steve A. Walker & Associates	Steve A. Walker & Associates	P	G
Bill Waters	Conductix-Wampfler	Conductix-Wampfler	O	MP
Charlie Weiner	Charlie Weiner	Charlie Weiner	P	U
Michael Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP
Marty Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	A	DR
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	O	U
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP
Frank Willard	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	A	DE
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Thomas S. Young	J.R. Clancy Inc.	Wenger Corp.	A	CP
Robert Young	Arup	Arup	A	DE
Art Zobal	Columbus McKinnon Corp.	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