

Minutes
Rigging Working Group
Wednesday, 19 October 2016
Embassy Suites
3600 Paradise Road
Las Vegas, NV 89169

Presiding co-chairpersons:

Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR
Bill Sapsis; Sapsis Rigging, Inc.; P; U

Recording secretaries:

Erin Grabe and Karl Ruling; ESTA

Members in attendance:

Jesse Adams; Rose Brand; P; DR
Tracie Allen; R&M Materials Handling; A; MP
Frank Allison; McLaren Engineering Group; M.G. McLaren, P.C.; A; G
Dana Bartholomew; Flying by Foy; Foy Inventerprises, Inc.; P; CP
William Beautyman; Limelight Productions, Inc.; P; DR
Ian Bevan; Walt Disney Parks and Resorts; Walt Disney Company; P; U
Keith Bohn; I; G
Bennett Brian; Reed Rigging Inc.; P; DR
Joseph Champelli; Entertainment Project Services, LLC; P; DE
Dan Culhane; SECOA; P; CP
Bruce Darden; Rigging Innovators, Inc.; P; CP
David Darland; PSAV Presentation Services; O; U
Jonathan Deull; JSD Projects LLC; I U
Russ Dusek; I Weiss; P; MP
Don Earl; Earl Girls, Inc.; P; DR
Nick Fleming; Walt Disney Parks and Resorts U.S.; Walt Disney Company; A; U
Mike Garl; Mike Garl Consulting LLC; P; DE
Sanford P. Gilzow; Shur-Rig LLC; P; G
William B. Gorlin; McLaren Engineering Group; M.G. McLaren, P.C.; P; G
Jerry Gorrell; Theatre Safety Programs; P; G
Pat Grenfell; Hoist Sales & Service; P; DR
Rod Haney; I.A.T.S.E. Local 891; P; U
Tim Hansen; Oasis Stage Werks; P; DR
Pete Happe; I; G
Herb Hart; Columbus McKinnon Corp.; A; MP
Jeremy Hochman; Jeremy Hochman Full Throttle Films/ VER; O; DR
Jeremy Hodgson; Cirque Du Soleil, Inc.; P; U
Joseph Jeremy; Niscon Inc.; Show Distribution Group, Inc.; P; MP
Ted Jones; Art Drapery Studios; Grand Stage; P; U
Jerald Kraft; JTH Lighting Alliance; P; CP
Kyle Kusmer; Entertainment Structures Group; Steven Schaefer Associates; P; G
Tom Lapp; Cirque Du Soleil, Inc.; A; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Jon Lenard; Applied Electronics; A; MP
Michael Lichter; Electronic Theatre Controls, Inc. (DE); Electronic Theatre Controls, Inc.; A; MP
Dan Lisowski; Dept. Of Theatre and Drama; University of Wisconsin - Madison; P; U
Jacob E. Loretto; Musson Theatrical Inc.; P; DR
Daniel H. Louis; Theta Consulting LLC; P; G
Sam Michael; Thern, Inc.; P; MP
Steven Michelman; Entertainment Project Services, LLC; A; DE

Orestes Mihaly; Production Resource Group ; P; DR
Rick Montgomery; R&M Materials Handling; P; MP
Bartholomew J. Mueller; Recreation Engineering Inc.; P; DE
Reid Neslage; H & H Specialties Inc.; P; MP
Jim Niesel; Theatre Projects Consultants, Inc.; P; DE
Richard J. Nix; ZFX, Inc.; P; G
Tracy Nunnally; Vertigo; P; CP
Carlos Ortega; PSAV Presentation Services; P; U
Miriam Paschetto; Geiger Engineers; P; G
Ty M. Prewitt; BellaTEX, Inc.; P; MP
Demian Purdy; PSAV Presentation Services; A; U
Steven Ricks; Electronic Theatre Controls, Inc.; P; MP
John Ringelman; Stage Rigging, Inc.; Freeman Companies; P; DR
Chris Schmidt; Stage Rigging, Inc.; Freeman Companies; A; DR
Steven Serafin; Chubb Group of Insurance Companies; P; G
John C. Snook; Thermotex Industries Inc.; P; CP
Stephen G. Surratt; Texas Scenic Company; P; DR
Ken Tilson; Columbus McKinnon Corp.; P; MP
Will Todd; Tomcat USA, Inc.; Milos Group; P; MP
Elmer Veith; Total Structures - Eastern US Sales Office; Total Structures, Inc.; A; MP
Steve Walker; Steve A. Walker & Associates; P; G
Charlie Weiner; Tomcat USA; Milos Group; A; MP
Michael Wells; Xtreme Structures and Fabrication; P; MP
Drew Wending; PSAV Presentation Services; O; DR
Marty Wesstrom; Mountain Productions Inc.; P; DR
R. Duane Wilson; George C. Izenour Associates; Amer. Society of Theatre Consultants; P; DE
Max A. Wilson; Applied Electronics; P; MP
Stephan Jon Wood; Stage Technologies; Tait Towers Manufacturing LLC; P; CP
Paul Zagajeski; J.R. Clancy, Inc.; Wenger Corp.; A; CP

Visitors:

Patrick Wallace; PSAV
Amanda Zimmerman; BellaTEX, Inc.
Tyler Bland; Walt Disney Company
Graeme Janzen; Vertigo
Jason Tello; Tyler Truss Systems

1 Opening remarks

Bill Sapsis called the meeting to order at 7:03 p.m.. He welcomed all to Las Vegas and thanked the attendees for their work.

2 Attendance and membership

2.1 Introductions of those present and taking attendance

A multi-colored sign-in sheet was passed clockwise while self-introductions went counterclockwise around the large hollow-square table.

2.2 Call for quorum

A quorum and supermajority was announced present by Bill Sapsis after a count of voters' raised hands.

2.3 Requirements for membership

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

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. There is an annual \$100 participation fee for all members. 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.

2.4 Changes of membership status due to lack of attendance

Bill Sapsis announced that the following voter has been moved to observer status due to lack of attendance:
William Bradburn; Aerial Arts; P; U.

2.5 Changes of membership status due to unreturned letter ballots

Bill Sapsis announced that the following voters have not returned the last two letter ballots issued to the working group and are in jeopardy of a change to observer if they fail to return the next one:

Donald Hoffend III; Avista Designs; P; G
Dan Lisowski; University of Wisconsin - Madison; P; DE

2.6 Processing of new membership and change in status requests:

Bill Sapsis read through the the following applications and requests received:

David Darland; PSAV; O; U
Jeong Sik Yoo; Korea Testing Laboratory / Theatre Safety Center; P; DE (Not present)
Drew Wending; PSAV; O; U
Nick Fleming; Disney; A; U
Pete Happe; Pete Happe; I; G
Ty Prewitt; BellaTEX, Inc.; P; MP
Demian Purdy, PSAV, Alternate
Bart Mueller; Recreational engineering; Observer to Principal
Jacob E. Lorretto; Musson Theatrical Inc.; P; DR

Dan Culhane moved to approve the applications and requests, with Jeong Sik Yoo, who was not present, to be accepted as an observer. The motion was seconded and unanimously approved by a show of raised hands.

2.7 Consensus body

The full consensus body of this working group at the time of this meeting, including those not present, was:

Name	Representing	Voting status	Interest category
Ethan William Gilson	Advanced Lighting and Production Services	P	U
R. Duane Wilson	Amer. Society of Theatre Consultants	P	DE
Max A. Wilson	Applied Electronics	P	MP
Jon Lenard	Applied Electronics	A	MP
Donald Hoffend_III	Avista Designs, LLC	P	G
Ty M. Prewitt	BellaTEX, Inc.	P	MP
Galen Price	Blue Man Group	P	U
Steven Serafin	Chubb Group of Insurance Companies	P	G
Jeremy Hodgson	Cirque Du Soleil, Inc.	P	U
Tom Lapp	Cirque Du Soleil, Inc.	A	U
Ken Tilson	Columbus McKinnon Corp.	P	MP
Herb Hart	Columbus McKinnon Corp.	A	MP
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Heather Rowe	Contract Services Administration Trust Fund	A	U
Don Earl	Earl Girls, Inc.	P	DR
Steven Ricks	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP

Name	Representing	Voting status	Interest category
Joseph Champelli	Entertainment Project Services, LLC	P	DE
Steven Michelman	Entertainment Project Services, LLC	A	DE
Dana Bartholomew	Foy Invenerprises, Inc.	P	CP
Joseph McGeough	Foy Invenerprises, Inc.	A	CP
John Ringelman	Freeman Companies	P	DR
Rocky Paulson	Freeman Companies	A	DR
Chris Schmidt	Freeman Companies	A	DR
Miriam Paschetto	Geiger Engineers	P	G
Ted Jones	Grand Stage	P	U
Reid Neslage	H & H Specialties Inc.	P	MP
Pat Grenfell	Hoist Sales & Service	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
Rod Haney	I.A.T.S.E. Local 891	P	U
Russ Dusek	I Weiss	P	MP
Jonathan Deull	JSD Projects LLC	I	U
Jerald Kraft	JTH Lighting Alliance	P	CP
Keith Bohn	Keith Bohn	I	G
William Beautyman	Limelight Productions, Inc.	P	DR
William B. Gorlin	M.G. McLaren, P.C.	P	G
Frank Allison	M.G. McLaren, P.C.	A	G
Mike Adamovich	M.G. McLaren, P.C.	A	G
Mike Garl	Mike Garl Consulting LLC	P	DE
Will Todd	Milos Group	P	MP
Charlie Weiner	Milos Group	A	MP
Marty Wesstrom	Mountain Productions Inc.	P	DR
Jacob E. Loretto	Musson Theatrical Inc.	P	DR
Tim Hansen	Oasis Stage Werks	P	DR
Pete Happe	Pete Happe	I	G
Orestes Mihaly	Production Resource Group	P	DR
Shawn Nolan	Production Resource Group	A	DR
Carlos Ortega	PSAV Presentation Services	P	U
Demian Purdy	PSAV Presentation Services	A	U
Rick Montgomery	R&M Materials Handling	P	MP
Tracie Allen	R&M Materials Handling	A	MP
Bartholomew J. Mueller	Recreation Engineering Inc.	P	DE
Bennett Brian	Reed Rigging Inc.	P	DR

Name	Representing	Voting status	Interest category
Bruce Darden	Rigging Innovators, Inc.	P	CP
Jesse Adams	Rose Brand	P	DR
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	P	DE
Kimberly Corbett Oates	Schuler Shook	P	DE
Bob McVay	Schuler Shook	A	DE
Dan Culhane	SECOA	P	CP
Joseph Jeremy	Show Distribution Group, Inc.	P	MP
Sanford P. Gilzow	Shur-Rig LLC	P	G
Joseph S. Schuster	Simpson Gumpertz & Heger	P	DE
Brad Dittmer	Stage Labor of the Ozarks	P	U
Steve Walker	Steve A. Walker & Associates	P	G
Kyle Kusmer	Steven Schaefer Associates	P	G
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Harold Ike Shippers	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Stephan Jon Wood	Tait Towers Manufacturing LLC	P	CP
James Tomlinson	Team Tomlinson	P	G
Stephen G. Surratt	Texas Scenic Company	P	DR
Russell Solomon	Texas Scenic Company	A	DR
Jim Niesel	Theatre Projects Consultants, Inc.	P	DE
Jerry Gorrell	Theatre Safety Programs	P	G
John C. Snook	Thermotex Industries Inc.	P	CP
Sam Michael	Thern, Inc.	P	MP
Jeff Wilkowski	Thern, Inc.	A	MP
Daniel H. Louis	Theta Consulting LLC	P	G
Adrian Forbes-Black	Total Structures Inc.	P	MP
Elmer Veith	Total Structures, Inc.	A	MP
Dan Lisowski	University of Wisconsin - Madison	P	U
Tracy Nunnally	Vertigo	P	CP
John P. Moore	Vertigo	A	CP
Ian Bevan	Walt Disney Company	P	U
Jeff T. Miller	Walt Disney Company	A	U
Nick Fleming	Walt Disney Company	A	U
Peter V. Svitavsky	Wenger Corp.	P	CP
Patrick Finn	Wenger Corp.	A	CP
Paul Zagajeski	Wenger Corp.	A	CP
Gregory Orth	WNP Services, Inc.	P	DR

Name	Representing	Voting status	Interest category
Michael Wells	Xtreme Structures and Fabrication	P	MP
Richard J. Nix	ZFX, Inc.	P	G
Robert Dean	ZFX, Inc.	A	G
Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter			
Votes by Interest Category:			
Custom-market producer		CP	8
Designer		DE	8
Dealer or rental company		DR	13
General interest		G	13
Mass-market producer		MP	12
User		U	14
Total votes possible:			68

3 Approval of minutes from the previous meeting

See the draft minutes of the July meeting, *RIGmin07-2016.pdf*.

Ted Jones said that he was in attendance at the July 2016 meeting. The minutes will be amended to show his attendance. Pat Grenfell moved for approval of the amended minutes. The motion was seconded and approved by a show of hands.

4 ESTA declarations

4.1 Reading of the anti-trust statement

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

ESTA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all ESTA events, all discussions will be limited to those subjects that are permitted by the antitrust laws. All members should refrain from any discussion or mention of competitively sensitive subjects such as the current or future prices charged for any member product or services, current or future marketing plans or strategies, and current or future costs, including employee salaries. There also must be no agreement on the suppliers or customers that members will do business with or the markets in which members will conduct business.

Violations of the antitrust laws can have serious consequences. If you have any questions or concerns about anything that is discussed at an ESTA meeting, please bring your concern to ESTA management. An easy to read pamphlet describing the antitrust laws is available from the ESTA staff.

Erin Grabe held up the pamphlet. Nothing was revealed.

4.2 Reading of the call for patents

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

ESTA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent and copyright disclosures to implement its intent. ESTA does not conduct patent or copyright searches and does not warrant that its standards contain no protected intellectual property.

In keeping with the open disclosures policy, I ask if anyone present wishes to notify this working group of the existence of a patent, patent application, 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 revealed.

5 Approval of the agenda

Mike Garl would like to add item 8.5, TSP fundraising. Roger Lattin moved to approve the agenda as amended. The motion was seconded and approved by a show of hands.

6 Old business

6.1 ANSI E1.1 - 2012, wire rope ladders (revision, reaffirmation, or withdrawal by 2017)

No news or action at this time.

6.2 ANSI E1.2 - 2012, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers (revision, reaffirmation, or withdrawal by 2017)

No news or action at this time.

6.3 ANSI E1.4-1 - 2016, Entertainment Technology--Manual Counterweight Rigging Systems (Revise, reaffirm, or withdrawal by 11 October 2021)

Karl Ruling and Erin Grabe announced that the standard was published.

6.4 BSR E1.4-2 - 201x, Entertainment Technology—Statically Suspended Rigging Systems

Ted Jones says that the task group is not meeting at LDI. There was some discussion of when the draft standard might be ready for public review. The task group members were hopeful for some progress in the near future.

6.5 BSR E1.4-3 - 201x, Entertainment Technology - Manually Operated Hoist Rigging Systems

See E1-4-3_FirstPubRevSummary.pdf.

The public review closed on 26 September. Comments were received and need to be resolved.

Richard Nix spoke about the comments received, many from Steve Walker. He expects to have some draft comment resolutions for the group to review by the next meeting.

6.6 BSR E1.6-1 - 201x, Entertainment Technology--Powered Hoist Systems (revision, reaffirmation, or withdrawal by 2017)

Bruce Darden reported that the E1.6-1 Powered Hoist Systems Task Group wishes to thank and acknowledge the members of the RWG for their thoughtful review our draft document. A total of 60 comments were submitted by members of the RWG or their work colleagues.

In addition, on 5 October 2016 TSP staff received notification that the U.S. Navy is now referencing ANSI E1.6 in their NAVFAC P-307 publication! A press release will be issued. A copy of the document may be downloaded from https://www.navy.mil/navfac_worldwide/specialty_centers/ncc.html, if you can bypass your browser's security settings.

Karl Ruling explained the importance of this reference, and noted that work done almost 20 years ago is just now paying off. Duane Wilson concurred with the importance of this reference.

6.7 ANSI E1.6-2 - 2013, Entertainment Technology--Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry (revision, reaffirmation, or withdrawal by 2018)

Elmer Veith spoke to the group on the need to revise E1.6-2. He indicated that E1.6-3 makes reference to E1.6-2, making revision of E1.6-2 important.

Elmer Veith moved that we start this revision process now. The motion was seconded and approved by a unanimous show of hands.

Bill Sapsis asked for volunteers for the task group. It was determined that the task group will be headed by Elmer Veith, and the other members will be Ken Tilson, Rick Montgomery, John Ringleman, Marty Westrom, Charlie Weiner, and Ben Brian.

Bill Sapsis asked for a scope document and rough timeline for the January meeting. Erin Grabe said she would set up a reflector for the task group.

6.8 ANSI E1.6-3 - 2012, The Use of Electric Chain Hoists in the Entertainment Industry (revision, reaffirmation, or withdrawal by 2017)
No news or action at this time.

6.9 ANSI E1.6-4 - 2013, Control of Electric Chain Hoists in the Entertainment Industry (revision, reaffirmation, or withdrawal by 2018)
No news or action at this time.

6.10 ANSI E1.8 - 2012, Entertainment Technology--Loudspeaker Enclosures Intended for Overhead Suspension--Classification, Manufacture and Structural Testing (revision, reaffirmation, or withdrawal by 2017)

Richard Nix moved to reaffirm E1.8. The motion was seconded. There was some discussion as to the timeline and the lack of speaker manufacturers. With only one Yes vote, the motion failed by a show of hands.

6.11 ANSI E1.15 - 2006 (R2016), Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (revision, reaffirmation, or withdrawal by 2021)

No news or action at this time.

6.12 ANSI E1.21 - 2013, Entertainment Technology — Temporary Structures Used for Technical Production of Outdoor Entertainment Events (revision, reaffirmation, or withdrawal by 2018)

Richard Nix reported that the ICC final votes are going on now, and, besides referencing E1.21 in the IFC, changes being considered in the Fire Code embrace a lot of the operations management planning philosophy.

6.13 ANSI E1.22 - 2016, Entertainment Technology - Fire Safety Curtain Systems (Revise, reaffirm, or withdrawal by 11 October 2021)

Erin Grabe noted that this standards is now published. Bill Sapsis thanked the task group for their work and the task group received a round of applause.

6.14 ANSI E1.39 - 2015, Entertainment Technology –Selection and Use of Personal Fall Arrest Systems on Portable Structures Used in the Entertainment Industry (Revision, reaffirmation, or withdrawal by 2020)

Bill Sapsis asked Bill Gorlin if he is seeing this standard referenced. Bill Gorlin said it is, but not a lot.

6.15 ANSI E1.43 - 2016, Live performer flying effect standard (Revise, reaffirm, or withdrawal by 12 February 2021)

Bill Gorlin noted that this standard is being used in many venues where people are flying.

6.16 ANSI E1.44 – 2014, Common Show File Exchange Format for Entertainment Industry Automation Control Systems -- Stage Machinery (revision, reaffirmation, or withdrawal by 2019)

Michael Lichter reported that this standard is being used and gaining traction in Europe.

6.17 Rigging Glossary

Chris Kaiser noted that there is no news on this project.

6.18 BSR E1.47 - 201x Recommended Guidelines for Entertainment Rigging System Inspections

Karl Ruling explained the need for another letter ballot on this draft ANS, due to modifications in the document made after the initial RWG letter ballot which resulted in another public review. Chris Kaiser moved to approve the draft as an American National Standard. The motion was seconded and will be decided by letter ballot. The working group gave a show of hands in support.

6.19 BSR E1.50—Video wall project

See E1-50_DisplaySystems_2013-2056r6.pdf and DraftResols_E1-50_Rig2015-2021r3.pdf. The task group would like the working group to consider the revised draft and draft comment resolutions, with the intention of offering the document for another public review. Note that the scope has been modified to exclude permanent installations. The task group is split on whether to keep this change, or to include permanent installations. In addition to the revised draft and the draft comment resolutions, the task group has responded to additional comments from Bill Gorlin, see Suggested response to BG comments FINAL.pdf. Only the revised draft and draft resolutions document require motions for action.

There was discussion of the narrowing of the scope.

Tim Hansen moved that the document be partitioned into a 50-1 and 50-2 for temporary and permanent respectively. The motion was seconded and approved with three opposed, no abstentions, and the rest in favor. The motion carried.

Charlie Weiner moved to approve the comment resolutions. The motion was seconded. There was discussion and further modification of the draft standard and the resolutions document. Charlie Weiner changed his motion to be “as amended.” The motion carried unanimously by a show of hands.

Charlie Weiner then moved to offer BSR E1.50-1 for public review. The motion was seconded and approved by a unanimous show of hands.

6.20 BSR E1.56, Rigging Support Points Design, Fabrication, Installation, and Testing

See BSRE1-56_Rig2015-2034r3_SupportPoints.pdf. Substantive changes have been made to the draft since the first public review. The task group submitted this revised draft standard for consideration and hopes to make a motion to approve a second public review.

Carlos Ortega reported on the distribution of the draft standard. Hearing no discussion, he moved to offer it for public review. The motion was seconded and approved by a unanimous show of hands.

6.21 BSR E1.59 – 20xx, Automation Vector Transmission Protocol

Dan Lisowski reported on the task group meeting, consisting mostly of RWG members this time around. The last meeting was attended mostly by CPWG members. Work will continue.

7 New business

8 Other business and announcements

8.1 Above & Beyond Awards

Bill Sapsis encouraged people to make nominations for the Above & Beyond Awards. The site is open year round at estalink.us/aboveandbeyond.

8.2 CEN standards update

Michael Lichter reported that the Brexit vote has not changed standardization work at this time. BSI is a member of ISO and CEN, and will not leave them if the country leaves the EU. It is a private company, not governmental.

However, Brexit will complicate Declarations of Conformity. These have to be signed by someone living in the EU. When Britain leaves the EU, companies will have to have a person living in Europe to do the declaration signing.

Michael Lichter noted that there is conflict with the crane standard group. EN 14492-2 is a standard from the crane industry that is currently getting extended with a chapter for “Suspension of loads above people.” This is causing a big uproar in the entertainment industry, since the requirements to the design of the machine are different, partially higher, partially lower. On the control system, there is practically no requirement in 14492 other than an up and down button (no SIL).

8.3 Investors in Innovation

ESTA's TSP relies almost entirely now on contributions from individuals and companies in the entertainment industry; ESTA can no longer support it out of general funds. These people and companies are recognized as Investors in Innovation, and are published online and publicized in our media. The TSP, all of us in this room, cannot do what we do without this support, and we do what we do for the greater good of our industry. Please consider becoming an Investor in Innovation with a donation of any size. Information on investing can be found at tsp.esta.org/invest.

Bill Sapsis spoke to the need for funding for the TSP, noting that it could all cease to exist should funding not be found.

8.4 Our Common Goals Initiative (OCGI)

Bill Sapsis noted that through the Our Common Goals Initiative, a new working group has been formed called the Event Safety Working Group. This working group is open to all who are materially affected by the subject matter.

Karl Ruling explained the legal requirements regarding joint copyright of standards drafted by the new group.

8.5 TSP Funding

Bill Sapsis said that the funding is dire and asked people to identify who in their organization can be called to ask for donations.

Mike Garl spoke more strongly, laying out the reasons for the crisis, with the principal one being the loss of support from Penton. He noted that roughly 12% of every LDI booth sales used to go to supporting ESTA, but that only half that will go to ESTA this year, and in 2017, none will. He asked for a five-year pledge of \$1,000 if you're a company that is alive; \$2,500 for medium companies; \$5,000 for big companies; and \$10,000 or more for the biggest companies.

Mike Garl asked for names of people right here, today, so we can talk to them at LDI. We will run out of funds by October, unless we have more funds.

9 Schedule for future meetings

The meeting schedule may be found at <http://esta.org/ESTA/meetings.php>.

9.1 January 2017 meetings

Bill Sapsis noted that the January 2017 meeting dates have been confirmed for 19-22 January 2017 at the D/FW Marriott Solana in Westlake, TX.

10 Adjournment

Carlos Ortega moved to adjourn. The motion was seconded. Hearing no objections, Bill Sapsis declared the meeting adjourned at 10:20 p.m.

Name	Company	Representing	Voting status	Int cat
Mike Adamovich	McLaren Engineering Group	M.G. McLaren, P.C.	A	G
Jesse Adams	Rose Brand	Rose Brand	P	DR
Tracie Allen	R&M Materials Handling	R&M Materials Handling	A	MP
Frank Allison	McLaren Engineering Group	M.G. McLaren, P.C.	A	G
Matthew Antonucci	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	P	U
William Ian Auld	Auld Entertainment	Auld Entertainment	O	U
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Roger Barrett	Star Events Group Ltd.	Star Events Group Ltd.	O	DR
Dana Bartholomew	Flying by Foy	Foy Inventerprises, Inc.	P	CP
Scott Battaglia	LMG Inc.	LMG Inc.	O	DR
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Ian Bevan	Walt Disney Parks and Resorts	Walt Disney Company	P	U
Roy Bickel	Roy Bickel	Roy Bickel	O	G
Scott M. Blair	Full Throttle Films/ VER	Full Throttle Films/ VER	O	DR
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Keith Bohn	Keith Bohn	Keith Bohn	I	G
William Bradburn	Aerial Arts, Inc.	Aerial Arts, Inc.	O	U
Louis Bradfield	Louis Bradfield	Louis Bradfield	O	U
Buddy Braile	North Shore Theatrical Rigging	North Shore Theatrical Rigging	O	U
Bennett Brian	Reed Rigging Inc.	Reed Rigging Inc.	P	DR
David M. Campbell	Geiger Engineers	Geiger Engineers	O	G
Joseph Champelli	Entertainment Project Services, LLC	Entertainment Project Services, LLC	P	DE
Daniel J. Clark	Clark-Reder Engineering, Inc.	Clark-Reder Engineering, Inc.	O	G
Benjamin Cohen	Chicago Flyhouse Inc.	Chicago Flyhouse Inc.	O	CP
Dan Culhane	SECOA	SECOA	P	CP
Bruce Darden	Rigging Innovators, Inc.	Rigging Innovators, Inc.	P	CP
David Darland	PSAV Presentation Services	PSAV Presentation Services	O	U
Robert Dean	ZFX, Inc.	ZFX, Inc.	A	G
Jonathan Deull	JSD Projects LLC	JSD Projects LLC	I	U
Jim Digby	Event Safety Alliance	Event Safety Alliance	O	U
Brad Dittmer	Stage Labor of the Ozarks	Stage Labor of the Ozarks	P	U
Russ Dusek	I Weiss	I Weiss	P	MP
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	P	DR
Patrick Finn	J.R. Clancy Inc.	Wenger Corp.	A	CP

Name	Company	Representing	Voting status	Int cat
Nick Fleming	Walt Disney Parks and Resorts U.S.	Walt Disney Company	A	U
Adrian Forbes-Black	Total Structures, Inc.	Total Structures Inc.	P	MP
Tim Franklin	Theta Consulting LLC	Theta Consulting LLC	O	G
Tony J. Galuppi	Tony J. Galuppi	Tony J. Galuppi	O	U
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	P	DE
James M. Garner	Walt Disney Studios - Disney Theatrical Group	Walt Disney Company	O	G
Chris Geisler	Fluid Design Inc.	Fluid Design Inc.	O	DE
Ethan William Gilson	ALPS	Advanced Lighting and Production Services	P	U
Sanford P. Gilzow	Shur-Rig LLC	Shur-Rig LLC	P	G
William B. Gorlin	McLaren Engineering Group	M.G. McLaren, P.C.	P	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Michael P. Gosenski	Rigging Systems LLC	Rigging Systems LLC	O	U
Erin Grabe	ESTA	ESTA	exf	G
Pat Grenfell	Hoist Sales & Service	Hoist Sales & Service	P	DR
Rod Haney	I.A.T.S.E. Local 891	I.A.T.S.E. Local 891	P	U
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Pete Happe	Pete Happe	Pete Happe	I	G
Sean Harding	Port Lighting Systems	Port Lighting Systems	O	G
Greg Hareld	Kleege Industries	Kleege Industries	O	U
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Chris Higgs	Total Solutions Group	Total Solutions Group	O	G
Jeremy Hochman	Full Throttle Films/ VER	Full Throttle Films/ VER	O	DR
Jeremy Hodgson	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	P	U
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	P	G
Joseph Jeremy	Niscon Inc.	Show Distribution Group, Inc.	P	MP
Ted Jones	Art Drapery Studios	Grand Stage	P	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	O	DR
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Nevin Kleege	Kleege Industries	Kleege Industries	O	U
Jerald Kraft	JTH Lighting Alliance	JTH Lighting Alliance	P	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	P	G

Name	Company	Representing	Voting status	Int cat
Tom Lapp	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	A	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Jon Lenard	Applied Electronics	Applied Electronics	A	MP
Michael Lichter	Electronic Theatre Controls, Inc. (DE)	Electronic Theatre Controls, Inc.	A	MP
Dan Lisowski	Dept. Of Theatre and Drama	University of Wisconsin - Madison	P	U
Jacob E. Loretto	Musson Theatrical Inc.	Musson Theatrical Inc.	P	DR
Daniel H. Louis	Theta Consulting LLC	Theta Consulting LLC	P	G
Wendy Manson	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	O	U
Magali Marcheschi	Polytechnic Montreal	Polytechnic Montreal	O	G
Joseph McGeough	Flying by Foy	Foy Inventerprises, Inc.	A	CP
Bob McVay	Schuler Shook	Schuler Shook	A	DE
Sam Michael	Them, Inc.	Them, Inc.	P	MP
Steven Michelman	Entertainment Project Services, LLC	Entertainment Project Services, LLC	A	DE
Orestes Mihaly	Production Resource Group	Production Resource Group	P	DR
Jeff T. Miller	Worldwide Standards and Auditing	Walt Disney Company	A	U
Rick Montgomery	R&M Materials Handling	R&M Materials Handling	P	MP
John P. Moore	Vertigo	Vertigo	A	CP
Bartholomew J. Mueller	Recreation Engineering Inc.	Recreation Engineering Inc.	P	DE
Bob Murphy	Occams Razor Technical Services	Occams Razor Technical Services	O	G
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP
Jim Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	DE
Richard J. Nix	ZFX, Inc.	ZFX, Inc.	P	G
Shawn Nolan	Production Resource Group	Production Resource Group	A	DR
Tracy Nunnally	Vertigo	Vertigo	P	CP
Kimberly Corbett Oates	Schuler Shook	Schuler Shook	P	DE
Carlos Ortega	PSAV Presentation Services	PSAV Presentation Services	P	U
Gregory Orth	WNP Services, Inc.	WNP Services, Inc.	P	DR
Edward A. (Ted) Paget	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	O	MP
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	A	DR

Name	Company	Representing	Voting status	Int cat
Kurt Pragman	Pragman Associates, LLC	Pragman Associates, LLC	O	G
Ty M. Prewitt	BellaTEX, Inc.	BellaTEX, Inc.	P	MP
Galen Price	Blue Man Group	Blue Man Group	P	U
Demian Purdy	PSAV Presentation Services	PSAV Presentation Services	A	U
Steven Ricks	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Mark Riddlesperger	LA ProPoint, Inc.	LA ProPoint, Inc.	O	CP
John Ringelman	Stage Rigging, Inc.	Freeman Companies	P	DR
Eric Rouse	Denver Center for the Performing Arts	Denver Center for the Performing Arts	O	G
Heather Rowe	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	A	U
Karl G. Ruling	ESTA	ESTA	exf	G
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	Scheu Consulting Services, Inc.	P	DE
Chris Schmidt	Stage Rigging, Inc.	Freeman Companies	A	DR
Joseph S. Schuster	Simpson Gumpertz & Heger	Simpson Gumpertz & Heger	P	DE
Ford Sellers	Chauvet Lighting	Chauvet Lighting	O	MP
Steven Serafin	Chubb Group of Insurance Companies	Chubb Group of Insurance Companies	P	G
Steven C. Shaw	Levitating Productions, Inc.	Levitating Productions, Inc.	O	MP
Harold Ike Shippers	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Q. Brian Sickels	Q. Brian Sickels	Q. Brian Sickels	O	G
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP
Russell Solomon	Texas Scenic Company	Texas Scenic Company	A	DR
Todd Spencer	PSAV Presentation Services	PSAV Presentation Services	O	U
Stephen G. Surratt	Texas Scenic Company	Texas Scenic Company	P	DR
Peter V. Svitavsky	J.R. Clancy, Inc.	Wenger Corp.	P	CP
Ross Taylor	Taylor & Taylor Associates	Taylor & Taylor Associates	O	G
Ken Tilson	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Will Todd	Tomcat USA, Inc.	Milos Group	P	MP
James Tomlinson	Team Tomlinson	Team Tomlinson	P	G
Stephen Vanciel	IATSE Local 631	IATSE Local 631	O	U
Elmer Veith	Total Structures - Eastern US Sales Office	Total Structures, Inc.	A	MP

Name	Company	Representing	Voting status	Int cat
Steve Walker	Steve A. Walker & Associates	Steve A. Walker & Associates	P	G
Charlie Weiner	Tomcat USA	Milos Group	A	MP
Michael Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP
Drew Wending	PSAV Presentation Services	PSAV Presentation Services	O	DR
Marty Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	P	DR
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	A	MP
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	P	DE
Max A. Wilson	Applied Electronics	Applied Electronics	P	MP
Stephan Jon Wood	Stage Technologies	Tait Towers Manufacturing LLC	P	CP
Nicholas Gill Wright	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	G
Jeong Sik Yoo	Korea Testing Laboratory	Korea Testing Laboratory / Theatre Safety Center	O	DE
Paul Zagajeski	J.R. Clancy, Inc.	Wenger Corp.	A	CP

Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter, O = Observer member, exf = Ex Officio member (staff)

Interest Category Key: CP = Custom-market producer, DE = Designer, DR = Dealer or rental company, G = General interest, MP = Mass-market producer, U = User