

**Minutes**  
**Rigging Working Group**  
Friday, 20 January 2017, 2:00 p.m. - 6:00 p.m.  
D/FW Marriott Solana  
Westlake, TX

**Presiding co-chairpersons:**

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

**Recording secretaries:** Karl G. Ruling and Erin Grabe; ESTA

**Members in attendance:**

Jesse Adams; Rose Brand; P; DR  
Frank Allison; McLaren Engineering Group; M.G. McLaren, P.C.; A; G  
Dana Bartholomew; Flying by Foy; Foy Inventerprises, Inc.; P; CP  
William Bradburn; Aerial Arts, Inc.; P; U  
Joseph Champelli; Entertainment Project Services, LLC; P; DE  
Bruce Darden; InterAmerica Stage, Inc.; P; CP  
David Darland; PSAV Presentation Services; O; U  
Don Earl; Earl Girls, Inc.; P; DR  
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  
Rod Haney; I.A.T.S.E. Local 891; P; U  
Tim Hansen; Oasis Stage Werks; P; DR  
Herb Hart; Columbus McKinnon Corp.; A; MP  
Joseph Jeremy; Niscon Inc.; Show Distribution Group, Inc.; P; MP  
Theresa Kelley; Full Throttle Films/ VER; P; DR  
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U  
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  
Daniel H. Louis; Theta Consulting LLC; P; G  
Rick Montgomery; R&M Materials Handling; P; MP  
John P. Moore; Vertigo; A; CP  
Bartholomew J. Mueller; Recreation Engineering Inc.; P; DE  
Mark Newlin; Xtreme Structures and Fabrication; A; MP  
Jim Niesel; Theatre Projects Consultants, Inc.; P; DE  
Richard J. Nix; I; G  
Shawn Nolan; Production Resource Group; A; DR  
Tracy Nunnally; Vertigo; P; CP  
Carlos Ortega; PSAV Presentation Services; P; U  
Gregory Orth; WNP Services, Inc.; P; DR  
Miriam Paschetto; Geiger Engineers; P; G  
Ty M. Prewitt; BellaTEX, Inc.; P; MP  
Demian Purdy; PSAV Presentation Services; A; U  
John Ringelman; Stage Rigging, Inc.; Freeman Companies; P; DR  
Chris Schmidt; Stage Rigging, Inc.; Freeman Companies; A; DR  
Joseph S. Schuster; Simpson Gumpertz & Heger; P; DE  
Steven Serafin; Chubb Group of Insurance Companies; P; G  
John C. Snook; Thermotex Industries Inc.; P; CP  
Russell Solomon; Texas Scenic Company; A; DR

Peter V. Svitavsky; J.R. Clancy, Inc.; Wenger Corp.; P; CP  
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  
R. Duane Wilson; George C. Izenour Associates; Amer. Society of Theatre Consultants; P; DE  
Stephan Jon Wood; Stage Technologies; Tait Towers Manufacturing LLC; P; CP  
Paul Zagajeski; J.R. Clancy, Inc.; Wenger Corp.; A; CP

**Visitors:**

Rick Boychuk; Grid Well Inc.  
Don Parman; Actsafe Safety Association  
Jason Tello; Tyler Truss Systems (applied for membership at the March meeting)  
Doug Fleenor; Doug Fleenor Design, Inc.

**1 Opening remarks**

At 2:04 p.m. CST, Bill Sapsis called the meeting to order by saying, "Good afternoon." He noted that there were almost enough chairs at the big table for everyone in the room. Bill thanked everyone for being here, and thanked everyone for their participation. He concluded his opening remarks by saying that he hopes we will be able to continue this work for a long time.

**2 Attendance and membership**

**2.1 Introductions of those present and taking attendance**

Self-introductions went counterclockwise around the room while a mint-green sign-in sheet was passed clockwise. Karl Ruling read off the names of the people joining online via WebEx.

**2.2 Call for quorum**

A quorum was announced present by Bill Sapsis by a count of raised-hands in the room and on WebEx.

**2.3 Requirements for membership**

The following statement was be 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 voters were not present, thus missing the last three meetings, and were moved to Observer status due to lack of attendance:

Donald Hoffend, III; Avista Designs, LLC; P; G  
Galen Price; Blue Man Group; P; U  
Peter A. Scheu; Scheu Consulting Services, Inc.; P; DE  
Brad Dittmer; Stage Labor of the Ozarks; P; U  
James Tomlinson; Team Tomlinson; P; G

**2.5 Processing of new membership and change in status requests:**

Bill Sapsis read through the following applications or change requests that have been received as of 20 January 2017:

Greg Williams; PSAV; O; G  
Dan Culhane; J.R. Clancy, Inc.; Wenger Corp.; A; CP (change in representation from Secoa)  
Steven Serafin; Chubb Group of Insurance Companies; P; G (requesting change from Observer)  
Brent Armstrong; Alpine Rigging & Structural Design; O; CP  
Tim Salamon; PSAV Presentation Services; O; DR  
Bruce Darden; InterAmerica Stage, Inc.; P; CP (change in representation from Rigging Innovators)  
Patrick Wallace; PSAV; O; U

Mark Newlin; Xtreme Structures and Fabrication; A; MP  
 Knut Skjonberg; Skjonberg Controls, Inc.; O; CP  
 Bill Bradburn, Aerial Arts, change to principal voting status  
 Theresa Kelley; VER; P; DR  
 Richard Nix; Richard Nix; I; G (Change in representation and int cat)  
 Erich Friend; Teqniqal Systems, LLC; O; G

Tim Hansen moved to approve the applications and changes in status. The motion was seconded and approved by a show of hands, with no abstentions or objections.

## 2.6 Consensus body

The full consensus body of this 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
William Bradburn	Aerial Arts, Inc.	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
Ty M. Prewitt	BellaTEX, Inc.	P	MP
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
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
Theresa Kelley	Full Throttle Films/ VER	P	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

Name	Representing	Voting status	Interest category
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
Bruce Darden	InterAmerica Stage, Inc.	P	CP
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
Richard J. Nix	Richard J. Nix	I	G
Jesse Adams	Rose Brand	P	DR
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Kimberly Corbett Oates	Schuler Shook	P	DE
Bob McVay	Schuler Shook	A	DE
Joseph Jeremy	Show Distribution Group, Inc.	P	MP
Sanford P. Gilzow	Shur-Rig LLC	P	G
Joseph S. Schuster	Simpson Gumpertz & Heger	P	DE
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

Name	Representing	Voting status	Interest category
Harold Ike Shippers	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Stephan Jon Wood	Tait Towers Manufacturing LLC	P	CP
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
Nick Fleming	Walt Disney Company	A	U
Peter V. Svitavsky	Wenger Corp.	P	CP
Dan Culhane	Wenger Corp.	A	CP
Paul Zagajeski	Wenger Corp.	A	CP
Gregory Orth	WNP Services, Inc.	P	DR
Michael Wells	Xtreme Structures and Fabrication	P	MP
Mark Newlin	Xtreme Structures and Fabrication	A	MP
Robert Dean	ZFX, Inc.	P	G

**Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter**

**Votes by Interest Category:**

Custom-market producer	CP	7
Designer	DE	7
Dealer or rental company	DR	14
General interest	G	12
Mass-market producer	MP	12
User	U	13
<b>Total votes possible:</b>		<b>65</b>

**3 Approval of minutes from the previous meeting**

*See the draft minutes of the October meeting, RIGmin10-2016r1.pdf.*

Richard Nix moved to approve the minutes as drafted. The motion was seconded. The motion carried with a show of hands.

## 4 ESTA declarations

### 4.1 Reading of the anti-trust statement

The following statement was be 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 and Karl Ruling held up copies of the pamphlets. Nothing was reported.

### 4.2 Reading of the call for patents

The following statement was be 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 reported.

## 5 Approval of the agenda

Richard Nix added agenda item 8.4. Erin Grabe added agenda item 8.5. Bill Sapsis added agenda item 8.6.

Eddie Kramer moved to accept the agenda as modified. 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 19 June 2017)

Jerry Gorrell moved to reaffirm the standard. The motion was seconded. A letter ballot will be issued to the working group concurrent with a public review.

### 6.2 ANSI E1.2 - 2012, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers (revision, reaffirmation, or withdrawal by 15 January 2018)

The group discussed reaffirming this standard. Elmer Veith noted that he thinks this standard needs some revision but that the group should hold off until LDI to take action. There was no disagreement, but there was no motion offered. .

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

No news or action at this time.

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

Jesse Adams said that the standard drafting process had stalled a bit on this project, but that he and Bart Mueller are bringing the draft and internal comments back to the task group. Jesse Adams said he hoped the task group would have a draft for the working group to consider for March, with the intent of sending it for a first public review. The task group is going to push hard to have a meeting in the next week and divide up tasks to get the draft done and distributed.

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

*From the draft October minutes:*

*The public review closed on 26 September 2016. Comments were received and need to be resolved.*

Richard Nix spoke. The task group is behind schedule. The group is about 2/3rds of the way through comment resolutions. The intent is to have something to the working group for consideration before March.

#### **6.6 BSR E1.6-1 - 201x, Entertainment Technology--Powered Hoist Systems** (last published in 2012--revision, reaffirmation, or withdrawal by 20xx)

Bruce Darden spoke. The task group has been working for almost a year. They are using the orchestra pit standard E1.42 to compare and align motor control requirements with this standard. Chris Kaiser will take a pass at formatting soon. The task group feels that they are close to offering the document for public review. They hope for consideration in March, but more likely July.

#### **6.7 BSR E1.6-2 - 20xx, Entertainment Technology--Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry** (last published in 2013 - revision, reaffirmation, or withdrawal by 20xx)

*A PINS for revision was filed with ANSI.*

Elmer Veith noted that the task group is meeting tomorrow morning to finish the scope document for distribution. The hope is to have a draft by LDI 2017 for informal working group internal comments, with January 2018 as a goal for first public review.

#### **6.8 ANSI E1.6-3 - 2012, The Use of Electric Chain Hoists in the Entertainment Industry** (revision, reaffirmation, or withdrawal by 3 July 2017)

Bill Sapsis asked that the working group look at this document over the next several weeks in order to make a recommendation in March to revise, reaffirm, or withdraw this document.

#### **6.9 ANSI E1.6-4 - 2013, Control of Electric Chain Hoists in the Entertainment Industry** (revision, reaffirmation, or withdrawal by 3 October 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 15 January 2018)

There was some discussion on whether action should be taken on this standard at this time. Karl Ruling noted that we are not required to have speaker manufacturers on the working group in order to re-publish the standard. He added that the group would do well to reaffirm the standard and let materially affected parties comment in public review.

Jerry Gorrell moved to reaffirm this standard. The motion was seconded. Jim Neisel asked for clarification on the reaffirmation process. Karl Ruling explained that there would be a letter ballot issued to the working group and that a public review would take place concurrently.

#### **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 23 September 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 19 December 2018)  
No news or action at this time.

**6.13 ANSI E1.22 - 2016, Entertainment Technology - Fire Safety Curtain Systems** (Revise, reaffirm, or withdrawal by 11 October 2021)  
John Snook said that he would like to add a discussion in March on this standard, a small pitch of 10 or 15 minutes.

**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 28 January 2020)  
Roger Lattin noted that the Z359 fall arrest standard will be revised this year and asked if it might have a bearing on this project. Jerry Gorrell said that it is part 1 being revised. Bill Sapsis noted that his preliminary review of the intended changes have no bearing on temporary structures, but that we will look at the changes as necessary.

**6.15 ANSI E1.43 - 2016, Live performer flying effect standard** (Revise, reaffirm, or withdrawal by 12 February 2021)  
No news or action at this time.

**6.16 ANSI E1.44 – 2014, Common Show File Exchange Format for Entertainment Industry Automation Control Systems -- Stage Machinery** (revision, reaffirmation, or withdrawal by 6 February 2019)  
No news or action at this time.

#### **6.17 Rigging Glossary**

No news, says Chris Kaiser. Bill Sapsis noted that there has been work on an international rigging document that includes a glossary.

**6.18 BSR E1.47 - 201x Recommended Guidelines for Entertainment Rigging System Inspections**  
Pete Svitavsky read the following statement:

*On January 5 the Rigging Working Group membership approved the proposal to accept BSRE1.47 as an American National Standard. A supermajority of the group approved the ballot, however four “no” votes with comments were also received. The task group is grateful for the comments. Several of the proposed changes could result in incremental improvements to the document. However the task group believes that these improvements would not benefit the public in a way that would justify a delay in adopting the standard. With this in mind we recommend to the working group that the document be forwarded to the TSC for approval, and that the comments received be considered at the time of the first scheduled review for affirmation. Note that this was actually the second ballot in the past six months in which a supermajority of the RWG voted to accept this document. This indicates that the majority of stakeholders agree the content of the standard reflects good practices and will be a benefit to the public.*

Karl Ruling explained further that the statement read is to be a resolution to the No votes received in the working group letter ballot. Shawn Nolan moved to accept the task group's statement as a resolution to the working group No votes. The motion carried with 43 Yes votes, a supermajority, by a count of raised-hands. There were three abstentions from Bart Mueller, Richard Nix, and Bill Bradburn.

**6.19 BSR E1.50—Video wall project**  
See *Smmry\_E1-50\_ScndRevw.pdf*.

Richard Nix spoke to the six comments received. The task group will submit a summary of draft resolutions and a revised draft for distribution to the working group before the March meeting.

**6.20 BSR E1.56, Rigging Support Points Design, Fabrication, Installation, and Testing**  
See *E1-56\_2ndRevwSmmry.pdf*.



Shawn Nolan reported on the comments received. The task group intends to have something for this working group to consider by the July meeting. Demian Purdy would like be added to the task group. Bill Sapsis appointed him, as requested.

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

No news or action at this time.

### **7 New business**

#### **7.1 Rigging console protocol**

Bruce Darden spoke to high-level rigging control (consoles), and advised that folks interested in this should get involved and propose a project.

### **8 Other business and announcements**

#### **8.1 Above & Beyond Awards**

Bill Sapsis noted that everyone is encouraged to make nominations for the Above & Beyond Awards. The site is open year round at [estalink.us/aboveandbeyond](http://estalink.us/aboveandbeyond).

#### **8.2 CEN standards update**

Michael Lichter was not present; no report was available.

#### **8.3 TSP funding / 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](http://tsp.esta.org/invest).*

Mike Garl reported on the campaign to date and urged people and companies to continue pressing for donations. Erin Grabe noted that 2017 TSP participation fees need to be paid.

#### **8.4 Changes to the IFC**

Richard Nix emphasized Mike Garl's plea to keep this program alive. He reported on his efforts to get our standards referenced by the Int'l Code Council, including "temporary event structure" being added to identify our stages and other structures set up for events. He outlined the changes in permitting requirements, which now require weather monitoring for events of 1000 or more people.

#### **8.5 ETNZ**

See <http://www.etnz.org/>.

Erin Grabe reported that ETNZ has two rigging documents up for revision in the coming months. They have requested the assistance of this body to offer comments. The documents, *safe-rigging-practices-nz-v1.0-june-2015.pdf* and *Guide-Version12.pdf*, will be included with the meeting minutes. Any comments on these documents should be sent directly to Andrew Gibson at [andrew@productionservices.co.nz](mailto:andrew@productionservices.co.nz). Bill Sapsis added that the comments should be constructive.

#### **8.6 Distinguished Achievement Award, USITT**

Bill Sapsis announced that Rocky Paulson is to receive the Distinguished Achievement award from USITT in March. The event overlaps with the RWG March meeting, though. It was asked whether or not we could start our meeting earlier to accommodate RWG members attending the ceremony. The questions will be asked of Frances Thompson, who does the TSP meeting schedule.

### **9 Schedule for future meetings**

Bill Sapsis noted that the meeting schedule may be found at <http://esta.org/ESTA/meetings.php>.

### **9.1 March 2017 meetings**

Bill Sapsis said that the March meeting is scheduled from 7-11pm on Thursday, 9 March 2017, at the Marriott St. Louis Grand. The group will be informed whether or not we can move the meeting time.

### **9.2 July 2017 meetings**

Bill Sapsis noted the July meeting is scheduled from 7-11pm on Saturday, 22 July 2017, at the D/FW Marriott Solana.

### **10 Adjournment**

Eddie Kramer moved to adjourn. Hearing no objections, Bill Sapsis declared the meeting adjourned at 3:34 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
Brent Armstrong	Alpine Rigging & Structural Design	Alpine Rigging & Structural Design	O	CP
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 Invenerprises, Inc.	P	CP
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.	P	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	J.R. Clancy, Inc.	Wenger Corp.	A	CP
Bruce Darden	InterAmerica Stage, Inc.	InterAmerica Stage, Inc.	P	CP
David Darland	PSAV Presentation Services	PSAV Presentation Services	O	U
Robert Dean	ZFX, Inc.	ZFX, Inc.	P	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	O	U
Russ Dusek	I Weiss	I Weiss	P	MP
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	P	DR
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

Name	Company	Representing	Voting status	Int cat
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	O	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
Theresa Kelley	Full Throttle Films/ VER	Full Throttle Films/ VER	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
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

Name	Company	Representing	Voting status	Int cat
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	Thern, Inc.	Thern, 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
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
Mark Newlin	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	A	MP
Jim Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	DE
Richard J. Nix	Richard J. Nix	Richard J. Nix	I	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
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	O	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
Heather Rowe	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	A	U
Karl G. Ruling	ESTA	ESTA	exf	G
Tim Salamon	PSAV Presentation Services	PSAV Presentation Services	O	DR
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services, Inc.	Scheu Consulting Services, Inc.	O	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

Name	Company	Representing	Voting status	Int cat
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
Knut 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	O	G
Stephen Vanciel	IATSE Local 631	IATSE Local 631	O	U
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
Patrick Wallace	PSAV Presentation Services	PSAV Presentation Services	O	U
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
Greg Williams	PSAV Presentation Services	PSAV Presentation Services	O	G
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