

Minutes
Rigging Working Group
Wednesday, 20 November 2013
19:00-23:00
The Las Vegas Hotel
Las Vegas, NV

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

Recording secretaries: Erin Grabe; PLASA
Karl G. Ruling; PLASA

Members attending:

Woody Pyeatt; A V Pro, Inc.; P; DR
Ethan William Gilson; Advanced Lighting and Production Services; P; U
James Niesel; Arup; A; DE
Robert Young; Arup; P; DE
Donald Hoffend_III; Avista Designs, LLC; A; G
Ted Jones; Chicago Spotlight, Inc.; P; U
Daniel J. Clark; Clark-Reder Engineering, Inc.; P; G
David Carmack; Columbus McKinnon Corp.; A; MP
Matthew Antonucci; Contract Services Administration Trust Fund; P; U
Edward A. (Ted) Paget; Daktronics Inc. ; P; CP
Michael Lichter; Electronic Theatre Controls, Inc.; A; MP
John Ringelman; Freeman Companies; A; DR
Miriam Paschetto; Geiger Engineers; P; G
Reid Neslage; H & H Specialties Inc.; P; MP
Tracy Nunnally; Hall Associates Flying Effects; P; CP
Pat Grenfell; Hoist Sales & Service; P; DR
Roger Lattin; I.A.T.S.E. Local 728; P; U
Rod Haney; I.A.T.S.E. Local 891; P; U
Tray Allen; James Thomas Engineering, Inc.; P; MP
Jonathan Deull; JSD Projects LLC; I; U
Jerald Kraft; JTH Lighting Alliance; P; CP
Greg Hareld; Kleege Industries; O; U
William Beautyman; Limelight Productions, Inc.; P; DR
Steve (BOZ) Bodzioch; LMG Inc.; A; G
William B. Gorlin; M.G. McLaren, P.C.; P; G
Keith Bohn; Milos Group; P; MP
Will Todd; Milos Group; A; MP
Scott Johnson; Milos Group; A; MP
Marty Wesstrom; Mountain Productions Inc.; P; DR
Joseph Jeremy; Niscon Inc.; P; CP
Eric Rouse; Pennsylvania State University; P; U
Steven C. Shaw; Performance Rigging Systems, Inc.; O; MP
Ben Peoples; Pittsburgh Hoist & Sandbag Company; O; CP
Shawn Nolan; Production Resource Group; A; DR
Todd Spencer; PSAV Presentation Services; P; U
Carlos Ortega; PSAV Presentation Services; A; U
Rick Montgomery; R&M Materials Handling; P; MP
Bruce Darden; Rigging Innovators, Inc.; P; CP
Jesse Adams; Rose Brand; P; DR
Patrick J. Finn; Sapsis Rigging, Inc.; P; U
Bob McVay; Schuler Shook; A; DE
Dan Culhane; SECOA; P; CP

Members attending (cont'd):

Brad Dittmer; Stage Labor of the Ozarks; P; U
Richard J. Nix; Steven Schaefer Associates; P; G
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR
Dana Bartholomew; Tait Towers Manufacturing LLC; P; CP
Ross Taylor; Taylor & Taylor Associates; O; G
Stephen G. Surratt; Texas Scenic Company; P; DR
Jyle Nogee; Theatre Design Services, LLC.; I; DE
Jerry Gorrell; Theatre Safety Programs; P; G
John C. Snook; Thermotex Industries Inc.; O; CP
Jeff Wilkowski; Thern, Inc.; P; MP
Elmer Veith; Total Structures, Inc.; A; MP
Don Halchak; Total Structures Inc.; A; MP
Dan Lisowski; University of Wisconsin - Madison; P; U
John Van Arsdale; University of Wisconsin - Madison; O; U
Christopher Jacobs; Virginia Beach City Public Schools; P; U
Pete Happe; Walt Disney Company; P; U
Jeff T. Miller; Walt Disney Company; A; U
Earle T. Greene; Walt Disney Company; A; U
Peter V. Svitavsky; Wenger Corp.; P; CP
Gregory Orth; WNP Services, Inc.; P; DR
Robert Ramsey; WNP Services, Inc.; A; DR
Michael Wells; Xtreme Structures and Fabrication; P; MP
Joseph Champelli; ZFX Flying Inc.; P; CP

Visitors:

Billy Phillips; Xtreme Structures
Michael Viehmeyer; James Thomas Engineering
Angel Hicks; James Thomas Engineering
Jacob Loretto; Musson Theatrical
Alex Coldner; Arup
Brett Mulford; LiftAll
Bob Medve; BMI Supply
Dennis dela Mata; IATSE Local 476
Jeff Reder; Clark-Reder Engineering

1 Opening remarks

Bill Sapsis called the meeting to order at 19:03 by welcoming everyone and reporting that the top four standards that have been downloaded have come from the Rigging Working Group.

2 Attendance and membership**2.1 Introduction of those present**

Self-introductions went clockwise around the room.

2.2 Circulation of attendance sign-in sheet

The blue sign-in sheet trailed the self-introductions clockwise around the room.

2.3 Call for quorum

Bill Sapsis asked for a show of hands of voting members, counted them, and then announced that a supermajority was present.

2.4 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. 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:

Any members in jeopardy of a status change were present. No changes at this time.

2.6 Processing of new membership requests:

The following applications were received:

Name	Company	Representing	Voting Status	Interest Category
Scott M. Blair	Full Throttle Films/ VER	Full Throttle Films/ VER	A*	DR
Patrick J. Finn	Sapsis Rigging, Inc.	Sapsis Rigging, Inc. (Change Bill Sapsis to alternate)	P	U
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	P	DE
Chris Geisler	Fluid Design Inc.	Fluid Design Inc.	O	DE
Pat Grenfell	Hoist Sales & Service	Hoist Sales & Service	P	DR
Don Halchak	Total Structures Inc.	Total Structures Inc.	A	MP
Jeremy Hochman	Full Throttle Films/ VER	Full Throttle Films/ VER	P*	DR
Christopher Jacobs	Virginia Beach City Public Schools	Virginia Beach City Public Schools	P	U
Scott Johnson	Tomcat USA, Inc.	Milos Group	A	MP
Bob McVay	Schuler Shook	Schuler Shook	A	DE
John Miller	University of North Carolina School of the Arts	University of North Carolina School of the Arts	O	U
Gregory Orth	WNP Services, Inc.	WNP Services, Inc.	P	DR
Robert Ramsey	WNP Services, Inc.	WNP Services, Inc.	A	DR
Steven Ricks	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc. (Michael Lichter to become alternate)	P	MP
Ross Taylor	Taylor & Taylor Associates	Taylor & Taylor Associates	O	G

* These members applied for voting status but were not in attendance and were accepted as observers

The following people asked for a change in voting status:

- Steve (Boz) Bodzioch for LMG, Inc. to be an alternate
- Bruce Darden of Rigging Innovators to principal.
- Jerald Kraft; JTH Lighting Alliance to principal.
- Ted Jones of Chicago Spotlight to principal.
- Daniel Clark of Clark-Reder back to principal
- Joseph Jeremy of Niscon Inc. back to principal voting status.

Roger Lattin moved that the applications be accepted, except that those applying for voting status and not present (Scott Blair and Jeremy Hochman for Full Throttle Films/ VER, and Mike Garl) be accepted as observers. The motion was seconded and then accepted with a unanimous show of hands.

2.7 Consensus body

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

Name	Representing	Voting Status	Interest Category
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
R. Duane Wilson	Amer. Society of Theatre Consultants	P	DE
Robert Young	Arup	P	DE
James Niesel	Arup	A	DE
S. Lars Klein	Arup	A	DE
Donald A. Hoffend_Jr.	Avista Designs, LLC	P	G
Donald Hoffend_III	Avista Designs, LLC	A	G
Ted Jones	Chicago Spotlight, Inc.	P	U
Daniel J. Clark	Clark-Reder Engineering, Inc.	P	G
Herb Hart	Columbus McKinnon Corp.	P	MP
Art Zobal	Columbus McKinnon Corp.	A	MP
David Carmack	Columbus McKinnon Corp.	A	MP
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Edward A. (Ted) Paget	Daktronics Inc.	P	CP
Steven Ricks	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Nils Becker	Electronic Theatre Controls, Inc.	A	MP
Joseph McGeough	Foy Invenenterprises, 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
Tracy Nunnally	Hall Associates Flying Effects	P	CP
Ed Garstkiewicz	Harting KGAA	P	G
Howard Forryan	Harting KGAA	A	G
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
Tray Allen	James Thomas Engineering, Inc.	P	MP
Jonathan Deull	JSD Projects LLC	I	U
Jerald Kraft	JTH Lighting Alliance	P	CP
William Beautyman	Limelight Productions, Inc.	P	DR

Name	Representing	Voting Status	Interest Category
Charlie Weiner	LMG Inc.	P	DR
Steve (BOZ) Bodzioch	LMG Inc.	A	DR
Douglas M. Eldredge	LMG Inc.	A	DR
William B. Gorlin	M.G. McLaren, P.C.	P	G
Mike Adamovich	M.G. McLaren, P.C.	A	G
Mike Garl	Mike Garl Consulting LLC	P	DE
Keith Bohn	Milos Group	P	MP
Will Todd	Milos Group	A	MP
Scott Johnson	Milos Group	A	MP
Vincent J. Cannavale	Motion Laboratories	P	CP
Peter Herrmann	Motion Laboratories	A	CP
David Herrmann	Motion Laboratories	A	CP
Gregory Quinkert	Motion Laboratories	A	CP
Marty Wesstrom	Mountain Productions Inc.	P	DR
Joseph Jeremy	Niscon Inc.	P	CP
Tim Hansen	Oasis Stage Werks	P	DR
Eric Rouse	Pennsylvania State University	P	U
Orestes Mihaly	Production Resource Group	P	DR
Shawn Nolan	Production Resource Group	A	DR
Todd Spencer	PSAV Presentation Services	P	U
Carlos Ortega	PSAV Presentation Services	A	U
Rick Montgomery	R&M Materials Handling	P	MP
Troy Post	R&M Materials Handling	A	MP
Bruce Darden	Rigging Innovators, Inc.	P	CP
Jesse Adams	Rose Brand	P	DR
Patrick J. Finn	Sapsis Rigging, Inc.	P	U
Bill Sapsis	Sapsis Rigging, Inc.	A	U
Peter A. Scheu	Scheu Consulting Services, Inc.	P	G
Kimberly Corbett Oates	Schuler Shook	P	DE
Joshua Grossman	Schuler Shook	A	DE
Bob McVay	Schuler Shook	A	DE
Dan Culhane	SECOA	P	CP
Brad Dittmer	Stage Labor of the Ozarks	P	U
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

Name	Representing	Voting Status	Interest Category
Dana Bartholomew	Tait Towers Manufacturing LLC	P	CP
Mark Ager	Tait Towers Manufacturing LLC	A	CP
Patrick Leigh Bettington	Tait Towers Manufacturing LLC	A	CP
Stephen G. Surratt	Texas Scenic Company	P	DR
Rick Rosas	Texas Scenic Company	A	DR
Joel A Guerra	Texas Scenic Company	A	DR
Jyle Nogee	Theatre Design Services, LLC.	I	DE
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
Don Halchak	Total Structures Inc.	A	MP
Dan Lisowski	University of Wisconsin - Madison	P	U
Christopher Jacobs	Virginia Beach City Public Schools	P	U
Pete Happe	Walt Disney Company	P	U
Jeff T. Miller	Walt Disney Company	A	U
Earle T. Greene	Walt Disney Company	A	U
Peter V. Svitavsky	Wenger Corp.	P	CP
Rodney F. Kaiser	Wenger Corp.	A	CP
Gregory Orth	WNP Services, Inc.	P	DR
Robert Ramsey	WNP Services, Inc.	A	DR
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
CP (Custom-market Producer)	11
DE (Designer)	5
DR (Dealer or Rental company)	12
G (General interest)	9
MP (Mass-market Producer)	9
U (User)	15
Total votes possible	61

3 Approval of minutes from the previous meeting

See the draft minutes of the 1 August 2013 meeting, RIGmin08-2013.pdf.

Roger Lattin moved to approve the draft minutes. The motion was seconded and approved by 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.

Nothing was 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.

Nothing was reported.

5 Approval of the agenda

Richard Nix moved to approve the agenda. 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 BSR E1.4 - 201x, Entertainment Technology--Manual Counterweight Rigging Systems

Results of recirculated ballot (see [RWG_E1-4_Ballot2013-2029r1_Smmry.pdf](#)).

6.3.1 Jim Niesel to address the group regarding his public review comments.

Jim Niesel addressed the group regarding his comments. Ted Jones moved to approve Jim Niesel's proposed changes. The motion was seconded by Dan Culhane. It was discussed and failed to pass with three voting in favor, two abstentions, and the rest voting against the motion.

Richard Nix reminded the working group that this revision was to fix the glaring omissions. There are many

things that could be improved or reconsidered, but that will take longer than this relatively quick amendment of the standard.

6.3.2 Possible late public review comment to consider

There were no late comments for consideration.

6.3.3 Addressing the one No vote with reasons, considering the Yes with comments.

Chris Kaiser withdrew her No vote. and changed it to Yes with comments.

Richard Nix moved that we start the process of making a major revision to E1.4. This revision process would address the expressed concerns of Chris Kaiser, Jim Niesel, and Steve Walker, and any others the working group might have. The motion was seconded and approved by a unanimous show of hands, a supermajority.

Bill Sapsis appointed a task group for the new revision. That group consists of Richard Nix, Pat Grenfeld, Bruce Darden, Ted Jones, Jim Neisel, Dan Culhane, Reid Neslage. The addition of Peter Scheu was mentioned but not confirmed.

6.4 ANSI E1.6-1 - 2012, Entertainment Technology--Powered Hoist Systems (revision, reaffirmation, or withdrawal by 2017)

No news or action at this time.

6.5 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)

No news or action at this time.

6.6 ANSI E1.6-3 - 2012, Safe Use of Electric Chain Hoists in the Entertainment Industry (revision, reaffirmation, or withdrawal by 2017)

No news or action at this time.

6.7 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.

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

No news or action at this time.

6.9 ANSI E1.15 - 2006 (R2011), Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (revision, reaffirmation, or withdrawal by 2016)

No news or action at this time.

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

Karl Ruling reported that the BSR 9 form was filed with ANSI on 23 October 2013. He had a phone conversation earlier in the day with one of the ANSI clerks about simplifying the BSR-9 submission. The BSR-9 packet he had submitted was over 150 pages long; much of that documentation is not necessary.

6.11 ANSI E1.22 - 2009, Entertainment Technology - Fire Safety Curtain Systems (revision, reaffirmation, or withdrawal by 2014)

From the draft August minutes: The task group will be meeting at 19:00... (on 1 August 2013)

Dan Culhane reported that another meeting is necessary to make recommendations to this group. That meeting is scheduled for this meeting cycle. He also reported on the NFPA 80 committee. Changes to chapter 20 include removal of fusible links and the addition of a requirement for certified third-party inspection of the installation.

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

From the draft August 2013 minutes:

Bill Sapsis reported that he has appointed Ethan Gilson as the new task group leader to replace Rocky Paulson, who has had to withdraw for personal reasons. A set of draft comment resolutions is to be expected soon.

See the E1-39_FourthRevwResols.pdf and BSRE1-39-2013-10-23.pdf.

Ethan Gilson addressed the group and thanked Rocky Paulson for his stewardship on the document and topic. He explained resolutions and changes resulting in the current draft.

Brad Dittmer moved to accept the resolutions. The motion was seconded and approved by supermajority, with three abstentions.

Brad Dittmer then moved that we accept the draft as an American National Standard. The motion was seconded and there was no further discussion. The question shall be decided by letter ballot.

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

See E1-43 Performer Flying Progress 10-1-2013.pdf, distributed to the RWG on 2 October 2013. Bill Gorlin to address the group.

Bill Gorlin thanked the working group for their comments. He said that the task group will work to incorporate the comments. He reported that the document is in good shape and that the informative annex is a large part of the remainder of the work. The task group meets twice this week.

6.14 BSR E1.44 – 201x, Common Show File Exchange Format for Entertainment Industry Automation Control Systems -- Stage Machinery

See the public review comment summary, Summry_BSR_E1-44_2013Cmmnts.pdf, which was emailed to the group on 10 October 2013. Resolutions are needed.

Michael Lichter addressed the group. He said that many comments had been dealt with already, several of which were rejected with reasons. The final resolutions made changes that are non-substantive.

Ted Paget moved to accept the comment resolutions as drafted. The motion was seconded and approved with a show of hands. No one opposed the measure, but five abstained. The vote was carried by a supermajority.

Dan Culhane moved that we accept the current draft as an American National Standard. That motion was seconded by Ted Paget and will be decided by letter ballot.

Bill Sapsis thanked Michael Lichter for his work and report.

6.15 Rigging Glossary

From the draft August minutes:

Chris Kaiser reported that there has been no significant work since the last meeting. The task group has been busy with other projects and life, but will have something for the next meeting.

Chris Kaiser stood to be heard in the large, noisy meeting room, and reported that the task group is still behind in their work, but that they hope to have something for the working group to review by the next meeting.

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

From the draft August minutes:

Pete Svitavsky said that the task group is making progress and may have a draft for the January meeting.

Pete Svitavsky reported that the next milestone will be at the March meeting, not in January. Chris Kaiser will

drive the project between meetings, while Pete Svitavsky will run the scheduled meetings.

It was asked and confirmed that fire safety curtain inspections will be a part of the work.

7 New business

7.1 Video wall project

See DisplaySystems.pdf. Bill Sapsis and Charlie Wiener to address the group.

Richard Nix reported that the group had an ad hoc meeting this morning and unanimously approves the current draft. Minor revisions include adding a clarification of "self-illuminating" and the removal of "property damage", as shown below.

Revised scope statement (*See DisplaySystems2.doc*):

The scope of this standard covers LED, video and other self-illuminated display structures not otherwise covered under the scope of other existing standards. The scope of this standard includes planning and site preparedness, assembly and erection, suspension and safety of components, special access requirements, use and dismantling of these systems, irrespective of their size, weight, or support method. The scope of this standard includes LED, video and self-illuminated display systems that in any way rely on rigid structural support frames, overhead suspensions, ground-supported stands or wall-mounted techniques during any use or installation, and applies to any of these systems in areas where failure of any support or anchorage could cause personal injury or loss of life."

Richard Nix moved that the working group approve this project with the intention of writing an American National Standard. The motion was seconded by Bill Gorlin and unanimously approved with one abstention. Bill Sapsis announced that the task group, as appointed, will remain in place.

7.2 Hand winches or hoists

Any proposals submitted?

Richard Nix volunteered the E1.4 task group to make a recommendation on possible inclusion of this item into the document's revision.

7.3 Dead-hung rigging

Any proposals submitted?

Richard Nix, again, volunteered the E1.4 task group to make a recommendation on possible inclusion of this item into the document's revision.

8 Other business and announcements

8.1 NVBF NA 149-00-05 AA Maschinen

From the draft August minutes:

Mark Ager gave the group a little background regarding both BSI and DIN seeking to push competing standards through as an EN; He noted that the European community is at a disagreement over one brake or two and that very little information is being disseminated by BSI or DIN because of the competition.

Michael Lichter addressed the group with regard to the studio hoist standard still in public review. That review ends shortly.

Michael Lichter also reported that CWA 15902 was submitted to an elevator/escalator committee in Brussels, but that the project will likely be rejected by that committee, since it deals with equipment with which that committee is unfamiliar. DIN has secured funding to support a new CEN committee that would be in charge of all stage machinery.

8.2 Update on the Event Safety Alliance and the Event Safety Guide

From the draft August minutes:

Bill Sapsis reiterated the need for this group to be supportive of the effort of the ESA; noting that it helps the community at large and this group. It was also noted that there is a parallel group in New Zealand and Australia and that there is interest in this topic in Singapore, too.

Keith Bohn reported that the *Event Safety Guide* will be released this weekend. It will be a living document. There was then a short discussion of the Australian safety guides.

8.3 CWA 15902 to be a European Standard

Karl Ruling to report. See CWA_15902_Update.pdf

The CWA 15902 news was already reported by Michael Lichter in 8.1.

8.4 TSP sessions at LDI: Come One, Come All!

Erin Grabe addressed the group and urged support for the in-booth presentations happening in booth #2251.

9 Schedule for future meetings

Bill Sapsis announced that the next meeting is scheduled for Saturday 18 January 2014, between 19:00 and 23:00 at the D/FW Marriott Solana in Westlake, TX.

10 Adjournment

Ted Paget moved that the meeting adjourn. The motion was seconded by a chorus of voices. Hearing no objections, Bill Sapsis declared the meeting adjourned at 20:43.

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
Mark Ager	Stage Technologies	Tait Towers Manufacturing LLC	A	CP
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP
Frank Allison	Frank Allison	Frank Allison	O	G
Matthew Antonucci	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	P	U
Brent Armstong	Brent Armstong	Brent Armstong	O	U
John Van Arsdale	University of Wisconsin - Madison	University of Wisconsin - Madison	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	Tait Towers Manufacturing LLC	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
Nils Becker	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	A	MP
Maria Bement	MGM Grand	MGM Grand	O	U
Patrick Leigh Bettington	Stage Technologies	Tait Towers Manufacturing LLC	A	CP
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
Steve (BOZ) Bodzioch	LMG Inc.	LMG Inc.	A	G
Keith Bohn	Tomcat USA, Inc.	Milos Group	P	MP
Ron Bonner	PLASA Technical Resources Office	PLASA EU	O	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

Name	Company	Representing	Voting Status	Int. Cat.
Barry Brazell	Barry Brazell	Barry Brazell	O	U
André Broucke	André Broucke	André Broucke	O	G
David M. Campbell	Geiger Engineers	Geiger Engineers	O	G
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
David Carmack	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
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.	P	G
Benjamin Cohen	Reed Rigging, Inc.	Reed Rigging, Inc.	O	DR
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
Stu Cox	ZFX Flying Inc.	ZFX Flying Inc.	A	CP
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
François Deffarges	Nexo	Nexo	O	MP
Cristina Delboni	Feeling Structures	Feeling Structures	O	MP
Jonathan Deull	JSD Projects LLC	JSD Projects LLC	I	U
Jim Digby	The Collaborative Endeavor Group	Linkin Park Touring/The Collective	O	U
Brad Dittmer	Stage Labor of the Ozarks	Stage Labor of the Ozarks	P	U
Noga Eilon-Bahar	Eilon Engineering Industrial Weighing Systems	Eilon Engineering Industrial Weighing Systems	O	MP
Douglas M. Eldredge	LMG Inc.	LMG Inc.	A	DR
James B. Evans	Mountain Productions Inc.	Mountain Productions Inc.	O	DR
Patrick J. Finn	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
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
Luca Galante	Alfa System Sas	Alfa System Sas	O	CP

Name	Company	Representing	Voting Status	Int. Cat.
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	P	DE
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G
Chris Geisler	Fluid Design Inc.	Fluid Design Inc.	O	DE
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
Erin Grabe	PLASA NA	PLASA NA	exf	G
Thomas M. Granucci	Associated Students, Cox Arena	San Diego State University	O	U
Earle T. Greene	Walt Disney Parks and Creative Entertainment	Walt Disney Company	A	U
Pat Grenfell	Hoist Sales & Service	Hoist Sales & Service	P	DR
Joshua Grossman	Schuler Shook	Schuler Shook	A	DE
Joel A Guerra	Texas Scenic Company	Texas Scenic Company	A	DR
Don Halchak	Total Structures Inc.	Total Structures Inc.	A	MP
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	Walt Disney Imagineering	Walt Disney Company	P	U
Sean Harding	High Output, Inc.	High Output, Inc.	O	G
Greg Hareld	Kleege Industries	Kleege Industries	O	U
Dean Hart	Stage Rigging, Inc.	Freeman Companies	O	U
Herb Hart	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
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
Jeremy Hochman	Full Throttle Films/ VER	Full Throttle Films/ VER	O	DR

Name	Company	Representing	Voting Status	Int. Cat.
Daniel Lynn Houser	Real Rigging Solutions, LLC	Real Rigging Solutions, LLC	O	U
Donald Hoffend_III	Avista Designs, LLC	Avista Designs, LLC	A	G
Christopher Jacobs	Virginia Beach City Public Schools	Virginia Beach City Public Schools	P	U
Wes Jenkins	Down Stage Right Industries	Down Stage Right Industries	O	CP
Joseph Jeremy	Niscon Inc.	Niscon Inc.	P	CP
Peter Johns	Total Structures, Inc.	Total Structures, Inc.	O	MP
Scott Johnson	Tomcat USA, Inc.	Milos Group	A	MP
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
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
Theresa Kelley	Total Structures, Inc.	Total Structures Inc.	A	MP
Nevin Kleege	Kleege Industries	Kleege Industries	O	U
S. Lars Klein	Arup	Arup	A	DE
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	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. (DE)	Electronic Theatre Controls, Inc.	A	MP

Name	Company	Representing	Voting Status	Int. Cat.
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
Jeff Lucas	Cirque Du Soleil, Inc.	Cirque Du Soleil, Inc.	O	G
Darren Lucier	North Guard Fall protection Inc.	North Guard Fall protection Inc.	O	U
Sam Lunetta	Michael Andrews	Michael Andrews	O	DR
Gary Mardling	Kish Rigging	Kish Rigging	O	DR
Chuck McClelland	Jeamar Winches Inc.	Jeamar Winches Inc.	O	MP
Joseph McGeough	Flying by Foy	Foy Invenerprises, Inc.	P	CP
Bob McVay	Schuler Shook	Schuler Shook	A	DE
Richard C. Mecke	Texas Scenic Company	Texas Scenic Company	O	DR
Orestes Mihaly	Production Resource Group	Production Resource Group	P	DR
Hank Miller	W.E. Palmer Co.	W.E. Palmer Co.	O	CP
Jeff T. Miller	Worldwide Standards and Auditing	Walt Disney Company	A	U
John Miller	University of North Carolina School of the Arts	University of North Carolina School of the Arts	O	U
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
John "Andrew" Munro	animaenagerie	animaenagerie	O	U
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
Rikki Newman	Rikki Newman	Rikki Newman	O	U
James Niesel	Arup	Arup	A	DE
Richard J. Nix	Entertainment Structures Group	Steven Schaefer Associates	P	G
Jyle Nogee	Theatre Design Services, LLC.	Theatre Design Services, LLC.	I	DE
Shawn Nolan	Production Resource Group	Production Resource Group	A	DR
Tracy Nunnally	Hall Associates Flying Effects	Hall Associates Flying Effects	P	CP

Name	Company	Representing	Voting Status	Int. Cat.
Kimberly Corbett Oates	Schuler Shook	Schuler Shook	P	DE
Carlos Ortega	PSAV Presentation Services	PSAV Presentation Services	A	U
Gregory Orth	WNP Services, Inc.	WNP Services, Inc.	P	DR
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
Ben Peoples	Pittsburgh Hoist & Sandbag Company	Pittsburgh Hoist & Sandbag Company	O	CP
G. Anthony Phillips	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	U
Philip J. Piszczak	The National Telephone Supply Company	The National Telephone Supply Company	O	G
Troy Post	R&M Materials Handling	R&M Materials Handling	A	MP
Michael Powers	Central Lighting & Equipment, Inc.	Central Lighting & Equipment, Inc.	O	DR
Kurt Pragman	Pragman Associates, LLC	Pragman Associates, LLC	O	G
Woody Pyeatt	A V Pro, Inc.	A V Pro, Inc.	P	DR
Gregory Quinkert	Motion Laboratories	Motion Laboratories	A	CP
Robert Ramsey	WNP Services, Inc.	WNP Services, Inc.	A	DR
Michael Reed	Reed Rigging, Inc.	Reed Rigging, Inc.	O	DR
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	A	DR
Timo Risku	Akumek	Akumek	O	DE
Rick Rosas	Texas Scenic Company	Texas Scenic Company	A	DR
Eric Rouse	Pennsylvania State University	Pennsylvania State University	P	U
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	A	U
Peter A. Scheu	Scheu Consulting Services, Inc.	Scheu Consulting Services, Inc.	P	G
Peter "Punch" Christian Schmidtko	Hollywood Lighting Services, Inc.	Hollywood Lighting, Inc.	O	DR
Steven C. Shaw	Performance Rigging Systems, Inc.	Performance Rigging Systems, Inc.	O	MP
Monica Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP
Knut Skjonberg	Skjonberg Controls, Inc.	Skjonberg Controls, Inc.	O	CP

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William Scott Sloan	William Scott Sloan	William Scott Sloan	O	U
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	O	CP
Todd Spencer	PSAV Presentation Services	PSAV Presentation Services	P	U
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
Ross Taylor	Taylor & Taylor Associates	Taylor & Taylor Associates	O	G
Will Todd	Tomcat USA, Inc.	Milos Group	A	MP
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	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
Charlie Weiner	LMG Inc.	LMG Inc.	P	DR
Michael Wells	Xtreme Structures and Fabrication	Xtreme Structures and Fabrication	P	MP
Marty Wesstrom	Mountain Productions Inc.	Mountain Productions Inc.	P	DR
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP
R. Duane Wilson	George C. Izenour Associates	Amer. Society of Theatre Consultants	P	DE
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Robert Young	Arup	Arup	P	DE
Art Zobal	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP

Voting Status and Interest Category Legend

P principal voting member	CP custom-market producer
A alternate voting member	MP mass-market producer
I individual voting member	DE designer
O observer non-voting member	DR dealer/rental company
	U user
	G general interest