

**Minutes**  
**Technical Standards Council**  
Sunday, 26 July 2015  
D/FW Marriott Solana  
Westlake, TX

**Presiding co-chairs:**

Mike Garl; Mike Garl Consulting LLC; P  
Mike Wood; Mike Wood Consulting LLC; P

**Recording secretaries:**

Karl G. Ruling; PLASA NA; exf  
Erin Grabe; PLASA NA; exf

**Members in attendance:**

Matthew Antonucci; Contract Services Administration Trust Fund; P  
Jerry Gorrell; USITT; Theatre Safety Programs; P  
Mitch Hefter; Mitch Hefter; Mitch Hefter; P  
A. Scott Hoyt; Heartland Scenic Studio; PLASA NA Treasurer; exf  
Fred Kosiewski; Walt Disney Company; Walt Disney Parks & Creative Entertainment; P  
Edwin S. Kramer; I.A.T.S.E. Local 1; P  
Jules Lauve ; Amer. Society of Theatre Consultants; Theatre Projects Consultants, Inc.; P  
David E. Miller; Walt Disney Company; Walt Disney Parks & Creative Entertainment; A  
Eddie Raymond; IATSE Local 16; P  
Alan M. Rowe; IATSE Crafts Advancement Program ; IATSE Local 728; P  
Lori Rubinstein; PLASA NA; exf  
Bill Sapsis; Sapsis Rigging, Inc.; P  
Steve Terry; Electronic Theatre Controls; P  
Ken Vannice; Ken Vannice LLC; P

**Visitors:**

Roger Lattin; IATSE Local 728  
Michael Lay; Philips  
Richard Nix; Entertainment Structures Group  
James Tomlinson

**1 Opening remarks**

Mike Garl called the meeting to order at 9:05. He thanked all those present for taking time out their schedules to attend and for helping to move the technical standards along. He added special thanks to the supporting companies.

**2 Attendance and membership**

**2.1 Taking attendance**

A blue sign-in sheet was circulated in a counterclockwise direction. Mike Garl noted the importance of this step with regard to our procedures and ANSI-compliance.

**2.2 Welcome to visitors**

### 2.3 Introductions

Self-introductions took place counter-clockwise around the table and all were welcomed again.

### 2.4 Call for quorum

*There are currently 14 votes possible. A quorum is 8.*

Mike Garl announced that quorum was present.

### 2.5 Consensus body

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

Name	Representing	Voting status
Jules Lauve	Amer. Society of Theatre Consultants	P
Kimberly Corbett Oates	Amer. Society of Theatre Consultants	A
Eugene Leitermann	Amer. Society of Theatre Consultants	A
Matthew Antonucci	Contract Services Administration Trust Fund	P
Larry Schoeneman	DesignLab Chicago, Inc.	P
Steve Terry	Electronic Theatre Controls, Inc.	P
Edwin S. Kramer	I.A.T.S.E. Local 1	P
Alan M. Rowe	IATSE Crafts Advancement Program	P
Eddie Raymond	IATSE Local 16 (PLASA NA Chairman)	P
Ken Vannice	Ken Vannice LLC	P
Mike Garl	Mike Garl Consulting LLC	P
Mike Wood	Mike Wood Consulting LLC	P
Mitch Hefter	Mitch Hefter	P
Bill Sapsis	Sapsis Rigging, Inc.	P
Jerry Gorrell	USITT	P
Louis Bradfield	USITT	A
Fred Kosiewski	Walt Disney Company	P
David E. Miller	Walt Disney Company	A
Total votes possible:		<b>14</b>
Key to Voting Status: P = Principal voter, A = Alternate voter		

### 3 Approval of minutes from the previous meeting

*See TSCmin03-2015.pdf*

Eddie Kramer moved to approve the minutes of the March 2015 TSC meeting as drafted. The motion was seconded and approved by a unanimous show of hands.

### 4 Call for patents, to be read aloud to the assembly

The following statement was read aloud to the assembly by Mike Garl:

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 the Technical Standards Council of the existence of a patent or copyright or other intellectual property that might protect material in a standard being developed by a working group. You need not be the holder of the patent or copyright to notify the Technical Standards Council of its existence.

Nothing was revealed with regard to patents.

## **5 Anti-trust statement, to be read aloud to the assembly**

The following statement was read aloud to the assembly by Mike Garl:

PLASA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all PLASA 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 a PLASA meeting, please bring your concern to PLASA management. An easy to read pamphlet describing the antitrust laws is available from the PLASA staff.

No anti-trust issues were raised.

## **6 Approval of agenda**

Jules Lauve asked to add an agenda item discussing E1.46 and its status. Jerry Gorrell supported that and the topic was added as 7.3.1.2.1 of the agenda.

Bill Sapsis moved to approve the agenda as amended. The motion was seconded and approved by a show of hands.

## **7 Old business and standing reports**

### **7.1 Financial reports**

#### **7.1.1 Treasurer's Report and Status of Contributions and Pledges**

Scott Hoyt commented on "*TSP Budget Info 30 June 2015.pdf*," and noted that the ProSight sponsorship has not been received yet.

Lori Rubinstein said that they had not responded to her outreach, but that she will continue to try. She asked members at the table to ask ProSight for a quote when their policies are up for renewal, and urged TSP members to urge others to ask for a quote. There was discussion of how to reach out to PLASA members to ask for a quote.

People at the table who have ProSight insurance said that they were very happy with the coverage.

Jules Lauve and Mike Wood, both ProSight policy holders, agreed to help with the outreach to other members. A list will be drafted of people to contact.

Lori Rubinstein then reported that the Technical Standards Program is not at budget yet for contributions, so please continue to ask for donations. She also reported that the Investors in Innovation had been re-organized into a tiered recognition level based on company size. She received no negative feedback, only positive from going back to the tiered recognition structure.

Eddie Kramer said that the logo we send supporters should have the year on it to indicate when they gave. This would help not make the logo be useful forever.

### **7.1.2 Accounting of TSP documents sold**

*See TSP Sales Report for TSC\_07-2015.pdf. Total download value exceeds \$1.04M.*

Mike Garl reported that over 33,000 standards have been downloaded. Karl Ruling added that an OSHA inspector had called recently, and that it was very easy to send the inspector to the website for reference material.

## **7.2 CEN committee update**

No news at this time.

## **7.3 Old Business**

### **7.3.1 Technical Standards Program project report**

*See TSPPrjctsSmmry2015-07.pdf.*

Mike Garl asked for questions on the report. There were none.

#### **7.3.1.1 Report on status of documents: ones in process, ones stable, ones needing action or of concern**

#### **7.3.1.2 Working group documents for possible action by the TSC**

##### **7.3.1.2.1 Public reviews**

*The Rigging Working Group received a revised BSR E1.4-1 – 201x, Manual Counterweight Systems, and comment resolutions from the first public review. They may vote to approve another review. See BSR\_E1\_4-1-201x\_2014-2029r3.pdf and DraftResols\_E1-4-1\_FrstRvwCmmnts.pdf.*

It was noted that the Rigging Working Group passed a motion to offer BSR E1.4-1 for a second public review. Mike Wood moved that we approve the document for public review. The motion was seconded and approved by a show of hands.

*The Rigging Working Group received a revised draft of BSR E1.43, Performer Flying Systems, and comment resolutions to the second public review. They may vote to offer the draft for another review. See BSR\_E1-43\_Doc2013-2039r9.pdf, DraftResols\_E1-43\_ScndRevwCmmnts.pdf.*

It was noted that at the Rigging Working Group meeting, Dan Culhane asked for a clause calling for a user manual. The consensus of the group was to add that clause. The Rigging Working Group approved the revised BSR E1.43 for a third public review. Mike Wood moved to approve the revised document for public review. The motion was seconded and approved with a show of hands.

It was noted that the Rigging Working Group approved another public review of BSR E1.22. Mike Wood moved to approve the public review. The motion was seconded and approved by a show of hands.

*The Stage Lifts Working Group received a revised BSR E1.42, Orchestra Pit Lifts Standard, and comment resolutions to the second public review. They may vote to offer the draft for another review. See BSR\_E1-42\_2013-10010r34.pdf, E1-42\_ApprovedResolsToUnresolvedCommentsFromFrstRevw.pdf, and E1-42\_2ndRevwCmmntResols.pdf.*

It was noted that the Stage Lifts Working Group approved another public review of BSR E1.42. Mike Wood moved that it be offered for a third public review. The motion was seconded and approved with a show of hands.

*The Control Protocols Working Group received a revised BSR E1.31, sACN, and draft comment resolutions to the first public review. They may vote to offer the draft for another review. See BSR\_E1-31-201x\_2014-1009r1.pdf and BSR\_E-131\_DraftResols.pdf.*

It was noted that the Control Protocols Working Group approved a second public review of BSR E1.31. Mike Wood moved that it be approved for public review. The motion was seconded and approved with a show of hands.

*The Control Protocols Working Group received a revised BSR E1.33, RDMnet, and draft comment resolutions to the third public review. They may vote to offer the draft for another review. See BSR\_E1-33-201x\_2010-1032r3.pdf and E1-33\_ThrdRvw\_DRAFT\_Resols\_r1.pdf.*

It was noted that the Control Protocols Working Group approved another public review of BSR E1.33. Mike Wood moved that it be approved for a fourth public review. The motion was seconded and approved with a show of hands.

*The Floors WG has voted to approve comment resols and r6b of E1.46; Do you approve?*

Jules Lauve explained why he voted No on the second public review. He explained that he feels that the TSC needs to hold the working group accountable for changing the type of document.

Karl Ruling spoke and talked about the audit, in which our ANSI auditor noted that our project request form for requiring a statement of what type of document something will be is difficult to answer before it's written. The writing and public review process will often change a document.

Steve Terry asked whether there is any condition in which a project would be a good idea as a guide and not a good idea as a normative standard. If there is such a possibility, then the TSC should have to approve these changes.

Jerry Gorrell argued that whether we call it a guide or standard, it's a legal document with weight.

Karl Ruling noted that it's the same amount of work, no matter what kind of document it is.

Mike Wood argued that we should consider all documents a standard and not bother with check boxes.

Jerry Gorrell moved that E1.46 document be recognized as a normative document, rather than the originally approved guide. The motion was seconded.

Steve Terry amended the motion that we offer it for public review as a standard, rather than the originally approved public review as a guide. With one abstention and the rest in favor, the motion carried. It will be offered for public review.

Steve Terry moved that the P&P include the duty of the TSC to monitor scope.

*The EPWG has voted to offer BSR E1.53 (BSR\_E1-53r3.pdf sent to TSC) for PR. Do you approve?*

It was noted that the Electrical power Working Group approved another public review of BSR E1.53. Mike Wood moved that it be approved for public review. The motion was seconded and approved with a show of hands.

#### **7.3.1.2.2 Reaffirmations**

*The Control Protocols Working Group received an updated ANSI E1.30-4, DDL Extensions for DMX512. They may resolve objections to the vote and reaffirm this standard at the July meeting. See E1-30-4\_2010\_2005-1007r6.pdf.*

Mike Lay reported that the working group will be voting to accept it as an ANS. There is no TSC action required at this time.

#### **7.3.1.2.3 Final approval**

*The Control Protocols Working Group received no comments during the review of BSR E1.37-2, Add'l Message Sets for E1.20 RDM. They may vote to approve this draft as an ANS, by letter ballot. See BSR-E1-37-2\_CmmntSmmry.pdf.*

The CPWG will vote by letter ballot to accept it as an ANS. There is no TSC action required at this time.

*The Fog & Smoke Working Group received no comments on the Introduction to Modern Atmospheric Effects, revision 5, while it was in public review. They may vote to approve the document this cycle. See IntroToModernAtmosphericEffects5.pdf.*

Steve Terry moved that we approve the document for publication. The motion was seconded and approved by a unanimous show of hands.

#### **7.3.1.2.4 Withdrawal**

*The Control Protocols Working Group voted to withdraw ANSI E1.45, VLC, by letter ballot, but is working on resolving objections received by voters. They may succeed in resolving these objections and approve the withdrawal during this meeting cycle. See DraftResolsToObjections\_WithdrawalOfANSI-E1-45\_CPVote.pdf.*

Mike Lay reported that the working group had resolved the objections to the vote for withdrawal. Steve Terry moved that we approve the withdrawal of the standard. The motion was seconded and approved with a unanimous show of hands.

### **7.3.1.2.5 New projects**

*See TSP\_ProjectRequest Outdoor Electrical.pdf.*

Erin Grabe reported that the EPWG approved the project on 23 July.

Eddie Kramer moved that we accept the project. The motion was seconded and there was discussion. Fred Koskiewski asked for clarification on the need for the project. The EPWG chair persons provided clarification. The motion carried by a show of hands with one abstention, and the rest in favor.

### **7.3.2 TSP Marketing**

Erin Grabe reported on the big posters that will be done for LDI. That idea has been expanded into an interactive display with push-buttons. Bill Ellis and Peter Willis will make this interactive display.

There are also plans for an standards quiz in the booth powerpoint that are like movie trivia questions. All working group chairs will be asked to submit questions, the deadline will be August 15<sup>th</sup>.

Mitch Hefter suggested a sign for exhibitor booths to promote those who participate.

Michael Lay has suggested that TSP members need to work on succession plans, plans to bring in younger people to continue the TSP.

Michael Lay said that we will send out a link to a PayPal button when we send out a Webex campaign.

It was noted that Maya Nigrosh suggested a Kickstarter program for teleconferencing equipment.

Lori Rubinstein asked for shorter, easier to market standards names.

### **7.3.3 Making the TSP be more international**

It was noted that all the July working group meetings had a remote-attendance option via WebEx. All of them except Fog & Smoke, had some remote participation. The participants in the CPWG meeting spanned the globe from Sweden to New Zealand, reported Karl Ruling.

### **7.3.4 Review of action items from last meeting not covered above**

## **8 New business**

### **8.1 CPWG leadership**

*The working group would like the council to approve of Maya Nigrosh taking Kimberly Corbett Oates' co-chair seat on the CPWG. See MayaNigrosh\_replaceKC\_Oates.pdf.*

Steve Terry moved that Maya be approved as co-chair. The motion was seconded and approved by a show of hands.

Mike Garl added a special thanks to Kimberly Corbett Oates for her service as co-chair to the CPWG.

### **8.2 Followspot Position WG leadership**

*At the 20 March 2015 Followspot Position Working Group meeting, Jack Schmidt announced his wishes to retire as leader of the working group. The group consensus was that Jules Lauve and Richard Logothetis serve as co-chairs. Both have agreed, pending TSC approval.*

Mike Wood moved to approve of the change in Followspot Position Working Group leadership. The motion was seconded and approved by a show of hands.

Mike Garl thanked Jack Schmidt for his years of dedicated service as co-chair of the working group.

### **8.3 RWG leadership**

*Bill Sapsis is the sole leader of the RWG; he has no co-chair. Chris Kaiser has volunteered to be a co-chair, and at the USITT Conference Bill said that she would be an acceptable choice to him. What is the TSC's will?*

Bill Sapsis moved to approve the addition of Chris Kaiser as co-chair of the RWG. The motion was seconded and approved by a show of hands.

### **8.3 PLASA ANSI Audit 2015**

*ANSI conducted their mandatory 5-year audit of PLASA last week, 13-15 July 2015. During the pre-audit call on 18 June 2015, the ANSI auditor made suggestions to staff regarding changes they saw fit to be made to the P&P to improve the efficiency of our process. These suggestions will appear in the auditors report of findings and suggestions for the 2015 audit.*

#### **8.3.1 Revising the P&P**

*While the Council has already approved a revision 10 of the P&P, ANSI has not yet done so – pending the auditors summary. In preparation for receipt of the report, some proposed revisions (with some notes) have been made to the P&P, see p&p-r11\_ShowingTrackedChanges.pdf. These changes are only preliminary, and are not being submitted to the Council for approval at this time.*

*Additionally, an observer member of the CPWG made a request to update the Call for Patents as read at each meeting. See LorenWilton\_SuggestedChangeToCallForPatents.pdf.*

Steve Terry moved that the TSC approve only the first public review, not subsequent public reviews. The motion was seconded. There was discussion. The motion was approved with a unanimous show of hands.

Steve Terry suggested that we update the call for patents to include published patent applications. The group consensus was to make this change to the reading of the call for patents.

Erin Grabe noted that changes to r11 of the P&P as distributed for this meeting will be amended and redistributed to include the additional suggestions and findings from the audit report.

## **9 Optional Reports**

### **9.1 Optional reports by working and task group leaders on active projects**

#### **9.1.1 Control Protocols**

Michael Lay said that there is a new task group evaluating our standards in regard to the adoption of IPv6.

#### **9.1.2 Electrical Power**

Mitch Hefter said that all issues regarding the EPWG have been covered already.



### **9.1.3 Floors**

Jerry Gorrell noted that he is seeing a lot of fall injuries, and he predicts that there will be an increase in insurance rates.

### **9.1.4 Fog and Smoke**

Karl Ruling reported that there are no active projects and that the group will not meet at LDI.

### **9.1.5 Followspot Position**

No news at this time.

### **9.1.6 Photometrics**

Jerry Gorrell spoke about the makeup mirror lighting standard being in final approval stages.

### **9.1.7 Rigging**

Bill Sapsis reported that the RWG is busy, busy, busy. There was also a brief note on the rigging glossary project and where it might be going.

### **9.1.8 Stage Lifts**

No additional news at this time than was already reported, says Richard Nix.

## **9.2 Reports of affiliated organizations and PLASA EU**

### **9.2.1 ASTC**

Jules Lauve reported that they are thoughtfully dealing with an issue of transgender people. Karl Ruling reported that OSHA 3795, A Guide to Restroom Access for Transgender Workers, was published and announced in Standards News in late June.

### **9.2.2 NFPA**

#### **9.2.2.1 FDW-AAA committee**

A new edition of NFPA 80 is due out, said Jerry Gorrell.

#### **9.2.2.2 SPE-AAA**

Jerry Gorrell mentioned that the NFPA 101 meeting would be held in late August in Milwaukee, WI. He will be attending the meeting.

#### **9.2.2.3 SAF-AXM**

No news, reported Karl Ruling.

#### **9.2.2.4 NEC**

Mitch Hefter said that the new comment system is a disaster. "Resolved" issues are invisible and changes only are shown, not rejected comments. If you want to submit comments by paper, you have to submit early.

Ken Vannice also reported that the EPWG has an ad hoc committee to deal with changes to the NEC having a bearing on our membership.

### **9.2.3 PLASA EU**

No further news.

#### **9.2.4 Event Safety Alliance**

Karl Ruling reported that we work with the ESG to promote mutual awareness of our work. Karl Ruling and Lori Rubinstein will do their session again at the Event Safety Summit; Lori Rubinstein will talk about ETCP, and Karl Ruling will talk about standards. It was noted that there are breakout sessions being done by Bill Sapsis on counterweight rigging and chain hoists, and by Miriam Paschetto on ANSI E1.21 and E1.39. The event is in Lititz, PA. from 1-3 December 2015.

#### **9.2.5 USITT**

Jerry Gorrell reported that there is a new website and it's better. Projects are moving along and they will soon be promoting the 2016 conference.

### **10 Other business**

#### **10.1 Developing standards for tents and other groups in the entertainment industry**

Richard Nix presented the idea that we could offer our program to other organizations for a fee. This could be a revenue stream. We are the leaders in the special events industry, and we could help other industries develop standards.

Eddie Kramer moved that we give Richard Nix the authority to offer our services to these organizations to help with writing standards. The motion was seconded. There was discussion. The consensus was that we would do this for a fee that would be revenue positive. Unanimous show of hands.

#### **10.2 Above & Beyond Awards**

The website is open for nominations.

#### **10.3 ETCP New Certification in Power Distribution**

Lori Rubinstein announced this new certification and noted that the hope is for a roll-out next summer.

#### **10.4 Should we do the Plugfest on a weekday to encourage more participants?**

Lori Rubinstein reported that one person said that some companies are not participating because it is over a weekend. If we have the meetings on weekdays, we might have their participation. The group consensus was that the weekend dates are not a major factor in the lack of participation.

#### **10.5 NATEAC 2016**

Bill Sapsis announced that NATEAC 2016 will take place in July 2016 at the Roosevelt Hotel.

### **11 Schedule for future meetings**

Mike Garl reminded the group that the next meeting is scheduled for 15:00 to 18:00 on 21 October 2015 at the Westgate Las Vegas Resort & Casino, in conjunction with LDI.

Mike Garl announced that there will be meetings in Westlake, Texas in January, but no dates have been confirmed yet.

### **12 Adjournment**

Bill Sapsis moved to adjourn. The motion was seconded. Hearing no objections, Mike Garl declared the meeting adjourned at 12:09 p.m.

Technical Standards Council Members as of 26 July 2015

---

Name	Company	Representing	Voting status
Matthew Antonucci	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	P
Ron Bonner	PLASA Technical Resources Office	PLASA EU	O
Harry Box	PLASA Production Equipment Rental Group	PLASA Production Equipment Rental Group	O
Louis Bradfield	Louis Bradfield	USITT	A
Mark Engel	Rosco Laboratories	Rosco Laboratories	O
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	P
Jerry Gorrell	Theatre Safety Programs	USITT	P
Erin Grabe	PLASA NA	PLASA NA	exf
Matthew Griffiths	PLASA EU	PLASA EU	exf
Mitch Hefter	Mitch Hefter	Mitch Hefter	P
A. Scott Hoyt	PLASA NA Treasurer	Heartland Scenic Studio	exf
David Johnson	Live Design	Penton Media	O
Fred Kosiewski	Walt Disney Parks & Creative Entertainment	Walt Disney Company	P
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P
Jules Lauve	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	P
Eugene Leitermann	Nextstage Design	Amer. Society of Theatre Consultants	A
David E. Miller	Walt Disney Parks & Creative Entertainment	Walt Disney Company	A
Kimberly Corbett Oates	Schuler Shook	Amer. Society of Theatre Consultants	A
Eddie Raymond	IATSE Local 16	IATSE Local 16 (PLASA NA Chairman)	P
JR Reid	JR Lighting, Inc.	PLASA Production Equipment Rental Group	O
Alan M. Rowe	IATSE Local 728	IATSE Crafts Advancement Program	P
Lori Rubinstein	PLASA NA	PLASA NA	exf
Karl G. Ruling	PLASA NA	PLASA NA	exf

Technical Standards Council Members as of 26 July 2015

---

Name	Company	Representing	Voting status
Marian Sandberg	Live Design	Penton Media	O
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P
Larry Schoeneman	DesignLab Chicago, Inc.	DesignLab Chicago, Inc.	P
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P
Ken Vannice	Ken Vannice LLC	Ken Vannice LLC	P
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P

**Key to Voting status:**

P = Principal voter

A = Alternate voter

exf = ex officio (staff), non-voting