

Minutes
Technical Standards Committee
Friday, 20 January 2006
Dallas/Ft. Worth Airport Marriott South
Ft. Worth, Texas

Chairman: Mike Garl; James Thomas Engineering, Inc.; P

Recording secretary: Karl G. Ruling; ESTA

Members present: Bill Sapsis; Sapsis Rigging, Inc.; P
Ken Vannice; Colortran (Leviton Manufacturing Co., Inc.); P
Edwin S. Kramer; I.A.T.S.E. Local 1; P
Steve Terry; Electronic Theatre Controls; P
Rodney F. Kaiser; J.R. Clancy Inc., representing USITT ; P
Mitch Hefter; Entertainment Technology(Genlyte Group LLC); P
William Conner; Bill Conner Associates LLC, representing the Amer. Society of
Theatre Consultants; P
Robin Crews; Wrightson, Johnson, Haddon & Williams, Inc., representing the
Amer. Society of Theatre Consultants; A
Ron Bonner; PLASA; A (arrived at 15:03)
Mark Engel; Rosco Laboratories; P
Mike Wood; Mike Wood Consulting LLC; P
Larry Schoeneman; Designlab Chicago, Inc.; P
Bill Groener; PRG Lighting North Bergen; P
David Johnson; Live Design (Prism Business Media); P
Lori Rubinstein; ESTA; ex officio

Visitors: Kent Jorgensen; IATSE Local 80
Roger L. Lattin; IATSE Local 728
Louis Bradfield; Bally's Las Vegas
Bob Luther; Lex Products
Bill Krokaugger; Mole-Richardson
Scott Blair, High End Systems
Harvey Sweet; LA ProPoint, Inc. (arrived at 14:04)
Dan Culhane; SECOA (arrived at 14:04)
Richard Nix; Performance Systems Integration (arrived at 14:04)
Tim Hansen; Oasis Stage Werks (arrived at 15:03)

1 Opening remarks

The meeting was called to order at 13:04 by Mike Garl. He welcomed all to Ft. Worth, and thanked everyone for taking time to help with our standards projects. He asked people to turn cell phones, pagers, and other communication devices to silent mode so that they would not disturb the meeting.

2 Attendance and membership

2.1 Taking attendance

A green sign-in sheet was circulated. It was clear that a quorum was present.

2.2 Welcome to visitors

Visitors were welcomed.

2.3 Consensus body during this meeting

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

Name	Company	Representing (This is the sort field.)	Voting status
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A
Larry Schoeneman	Designlab Chicago, Inc.		P
Steve Terry	Electronic Theatre Controls		P
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P
Edwin S. Kramer	I.A.T.S.E. Local 1		P
Mike Garl	James Thomas Engineering, Inc.		P
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P
Mike Wood	Mike Wood Consulting LLC		P
Matthew Griffiths	PLASA	PLASA	P
Ron Bonner	PLASA	PLASA	A
Bill Groener	PRG Lighting North Bergen		P
David Johnson	Live Design (Prism Business Media)		P
Mark Engel	Rosco Laboratories		P
Bill Sapsis	Sapsis Rigging, Inc.		P
Colin Waters	TMB		P
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A
Florian von Hofen	VPLT	VPLT	P
Eckart Steffens	SOUNDLIGHT	VPLT	A
		Total votes possible	16

3 Approval of minutes from the previous meeting (document TSC/2005-0006)

Mitch Hefter offered a correction to the draft minutes. He said that he planned to have a draft response to the BSR E1.24 comments, if required by the working group, ready for the meeting in January. Karl Ruling made the change and created an r1 version version of the November 2006 minutes

Eddie Kramer moved that the November 2006 meeting minutes as amended be accepted. The motion was seconded and then approved by a unanimous show of hands.

4 Call for patents

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

"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 the Technical Standards Committee 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 Committee of its existence."

No protected intellectual property was brought to the attention of the assembly.

5 Anti-trust statement

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

"The ESTA Board of Directors and the leadership of this Technical Standards Committee 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 ESTA president immediately.

"ESTA 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."

Karl Ruling, the Technical Standards Manager, held up one of the easy-to-read pamphlets to show that it was available.

No restraint of trade issues were brought to the attention of the assembly.

6 Approval of agenda

Mitch Hefter moved that the draft agenda be approved. The motion was seconded. The motion was approved by a show of hands.

7 Reminder about ESTA committee contact information on the website

Lori Rubinstein reminded people that the ESTA committee contact information is posted on the ESTA website. They should check it, and notify the ESTA staff if it is in error or if their contact information has changed.

8 Old business

8.1 Financial reports

8.1.1 Treasurer's report

Mike Wood, our new treasurer, reported.

Wood explained that the new format for the report is to give a better idea of "How are we doing." It compares projected against actual, rather than giving a breakdown prorated month-by-month. Our expenditures and income are not the same each month, so a rigid prorating is not helpful.

He noted the large amount of income that is shown as coming from USITT. He characterized this as "a windfall" and explained that it is the result of USITT paying money owed on past standards sales. This has helped reduce our deficit from a projected \$103,500.00 to \$37,149.97, but we cannot count on such a large lump-sum in the future.

Bill Conner suggested we look at selling standards subscriptions. Lori Rubinstein asked Larry Schoeneman's pricing task group to look into this. Mike Wood said we could do this electronically fairly easily.

8.1.2 Status of contributions and pledges

A summary document was distributed by Lori Rubinstein.

8.1.3 Accounting of TSP documents sold and on-hand

A summary document was distributed by Lori Rubinstein. She noted that it did not include the most recent sales from ANSI because we did not have a report from them.

8.2 Working group reports

8.2.1 Camera Cranes

8.2.1.1 Crane handbook

Kent Jorgensen reported that the font problems with the handbook have been solved and the document has been published.

8.2.1.2 BSR E1.12 camera crane standard

Kent Jorgensen reported that a working group meeting is scheduled for March 1, at which he plans to work on editing the draft.

8.2.2 Control Protocols

8.2.2.1 E1.11 (DMX512-A)

Steve Terry reported that the VPLT German/English version is expected to be published some time in 2006.

8.2.2.2 BSR E1.27-x (DMX512 cabling of various types)

8.2.2.2.1 Public review report for BSR E1.27-1

A set of proposed public review comment resolutions and a revised version of the draft standard had been sent to the TSC members before the meeting. The resolutions did not make any substantive changes to the draft standard.

Steve Terry moved that the TSC accept E1.27-1 as an American National Standard, contingent on the CPWG approving it. The motion was accepted by a supermajority with a roll call vote:

Name	Company	Representing (This is the sort field.)	Voting status	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X		
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A			
Larry Schoeneman	Designlab Chicago, Inc.		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X		
Mike Garl	James Thomas Engineering, Inc.		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner**	PLASA	PLASA	A			
Bill Groener	PRG Lighting North Bergen		P	X		
David Johnson	Live Design (Prism Business Media)		P	X		
Mark Engel	Rosco Laboratories		P	X		
Bill Sapsis	Sapsis Rigging, Inc.		P	X		
Colin Waters	TMB		P			
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	X		
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A			
Florian von Hofen	VPLT	VPLT	P			
Eckart Steffens	SOUNDLIGHT	VPLT	A			
Total votes possible			16	13	0	0

** Ron Bonner was not yet present.

8.2.2.2 Progress report on other BSR E1.27-x drafting

Terry reported that progress is being made on the other BSR E1.27 cabling-related documents.

8.2.2.3 BSR E1.17 (ACN)

Terry reported that the draft standard is in public review.

8.2.2.4 ANSI E1.3-2001, 0-10V analog control specification, reaffirmation

Steve Terry moved that the TSC approve the public review for reaffirmation of E1.3 (CP/1997-1003r10). All voters present voted in favor of the motion. This was a supermajority of the TSC's consensus body.

Name	Company	Representing (This is the sort field.)	Voting status	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X		
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A			
Larry Schoeneman	Designlab Chicago, Inc.		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X		
Mike Garl	James Thomas Engineering, Inc.		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner **	PLASA	PLASA	A			
Bill Groener	PRG Lighting North Bergen		P	X		
David Johnson	Live Design (Prism Business Media)		P	X		
Mark Engel	Rosco Laboratories		P	X		
Bill Sapsis	Sapsis Rigging, Inc.		P	X		
Colin Waters	TMB		P			
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	X		
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A			
Florian von Hofen	VPLT	VPLT	P			
Eckart Steffens	SOUNDLIGHT	VPLT	A			
Total votes possible			16	13	0	0

** Ron Bonner was not yet present.

8.2.2.4 BSR E1.20 (Remote Device Management)

Steve Terry moved that the TSC accept BSR E1.20 as an ANS, contingent on the approval of the CPWG in their meeting tomorrow. The motion was seconded. The motion was accepted by a supermajority with a roll call vote. There was one abstention.

Name	Company	Representing (This is the sort field.)	Voting status	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X		
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A			
Larry Schoeneman	Designlab Chicago, Inc.		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P			X
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X		

Name	Company	Representing (This is the sort field.)	Voting status	Yes	No	Abstain
Mike Garl	James Thomas Engineering, Inc.		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner **	PLASA	PLASA	A			
Bill Groener	PRG Lighting North Bergen		P	X		
David Johnson	Live Design (Prism Business Media)		P	X		
Mark Engel	Rosco Laboratories		P	X		
Bill Sapsis	Sapsis Rigging, Inc.		P	X		
Colin Waters	TMB		P			
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	X		
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A			
Florian von Hofen	VPLT	VPLT	P			
Eckart Steffens	SOUNDLIGHT	VPLT	A			
		Total votes possible	16	12	0	1

** Ron Bonner was not yet present.

8.2.2.5 E1.11 recommended practice

Peter Willis has taken over the leadership of the task group, reported Steve Terry. The task group is of good size, with neither too few nor too many people; Willis is not writing the draft document alone. Terry said he expects the CPWG to hear a report at its meeting tomorrow.

8.2.2.6 BSR E1.30, Application level equipment interoperability for control of commonly encountered entertainment technology devices using E1.17 (new project)

Steve Terry explained the Interoperability Profiles, which are the subject of this project. These are what are needed to make ACN work and not be a theoretical construct. He said we should see these develop quickly.

8.2.2.7 BSR E1.31, Lightweight streaming protocol for transport of DMX512 using ACN (new project)

Steve Terry explained that people have said that ACN needs to be able to be used by lightweight devices and they have need for a streaming DMX-like data stream. The market has spoken, and we are complying. There was resistance from the task group, but it is clear that the industry needs this.

8.2.3 Electrical Power

8.2.3.1 BSR E1.18, Recommended practice for selection, installation, and use of portable feeder cable

KenVannice reported that the motion for a first public had failed on the letter ballot, so the document was sent back to task group to work on resolving the parts that had drawn objections. The document was discussed at the NEC meetings in Hilton Head. It will be reorganized to read better and will not have the most complicated systems described right at the front.

8.2.3.2 BSR E1.19, Recommended practice for use of Class A GFCIs

KenVannice reported that there had been a heated meeting during which all the comments were resolved, but the resolutions need to be documented and document modified to incorporate them.

8.2.3.3 BSR E1.24, pin connector intermatability standard

Ken Vannice moved that the document be accepted as an American National Standard. The motion was seconded. The motion was accepted by a supermajority with a roll call vote:

Name	Company	Representing (This is the sort field.)	Voting status	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X		
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A			
Larry Schoeneman	Designlab Chicago, Inc.		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X		
Mike Garl	James Thomas Engineering, Inc.		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner **	PLASA	PLASA	A			
Bill Groener	PRG Lighting North Bergen		P	X		
David Johnson	Live Design (Prism Business Media)		P	X		
Mark Engel	Rosco Laboratories		P	X		
Bill Sapsis	Sapsis Rigging, Inc.		P	X		
Colin Waters	TMB		P			
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	X		
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A			
Florian von Hofen	VPLT	VPLT	P			
Eckart Steffens	SOUNDLIGHT	VPLT	A			
Total votes possible			16	13	0	0

** Ron Bonner was not yet present.

8.2.3.4 Luminaire maintenance guidance

Ken Vannice reported that the EPWG has adopted writing a luminaire inspection guidance document as an American National Standard project. The aim is to help people maintain stage and studio luminaires properly by giving them guidance on how to look for faults.

8.2.3.5 New co-chair for EPWG

Bob Luther asked to be relieved of his duties as co-chair of the Electrical Power Working Group.

Ken Vannice moved that Mitch Hefter be appointed as co-chair of the Electrical Power Working Group. The motion was seconded. The motion was approved by a show of hands, with all voting in favor, except for one abstention.

Bob Luther said serving as co-chair of the EPWG has been one of the most rewarding professional experiences he has ever had. He has learned a lot.

8.2.4 Floors, BSR E1.26

Tim Hansen reported that no comments were received during the public review of BSR E1.26, and the four of the seven voting members present at the working group meeting voted to accept it as an ANS. Those not at the meeting will be asked to vote by letter ballot.

He said that the working group wishes to publish with the standard some of the data that is available about performance floors that have already been tested using the method described in BSR E1.26.

The working group will next address the slipperiness of performance floors.

8.2.5 Fog and Smoke

8.2.5.1 BSR E1.23, General fog standard

Larry Schoeneman reported that the working group has some proposed resolutions for the comments received during the fourth public review of the draft document. The group will consider them and a motion to accept a revised version of the document as an American National Standard. The resolutions do not make any substantive changes to the draft document.

8.2.5.2 ANSI E1.14-2001, Recommendations for Inclusions in Fog Equipment Manuals

Larry Schoeneman move that the existing ANSI E1.14-2001 be offered for public review as part of its reaffirmation. The motion was seconded. The motion was approved by a supermajority of the TSC:

Name	Company	Representing (This is the sort field.)	Voting status	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X		
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A			
Larry Schoeneman	Designlab Chicago, Inc.		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Edwin S. Kramer **	I.A.T.S.E. Local 1		P			
Mike Garl	James Thomas Engineering, Inc.		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner **	PLASA	PLASA	A	X		
Bill Groener	PRG Lighting North Bergen		P	X		
David Johnson	Live Design (Prism Business Media)		P	X		
Mark Engel	Rosco Laboratories		P	X		
Bill Sapsis	Sapsis Rigging, Inc.		P	X		
Colin Waters	TMB		P			
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	X		
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A			
Florian von Hofen	VPLT	VPLT	P			
Eckart Steffens	SOUNDLIGHT	VPLT	A			
		Total votes possible	16	13	0	

** Ron Bonner was present by this time. Eddie Kramer had stepped out of the room and was not present for the vote.

8.2.5.3 BSR E1.29, Fog equipment product safety standard (new project)

Larry Schoeneman reported that he, Mike Wood, and Karl Ruling were the task group working on this project. We're reviewing the draft document and working on it.

Steve Terry said he had withdrawn his NEC proposal to require listing of fog machines on the basis of this project. It has his support.

8.2.6 Followspot Position

Robin Crews reported that the working group is working on the meat of the standard and has gotten past the outline "What are we doing?" stage. Now, as a parallel effort, they are talking about how to educate other organizations of the standard and the problem it addresses.

Mike Garl pointed out that David Johnson is on the TSC to help publicize things. He is a resource for this kind of outreach and education.

8.2.7 Photometrics 15:20

8.2.7.1 BSR E1.25

Karl Ruling reported that no comments had been received during the last public review of the document. The working group may decide to accept it as an American National Standard.

8.2.7.2 ANSI E1.9-2001 revision

Steve Terry moved that the TSC approve the public review of the E1.9 revision (Photo/2005-5010). The motion was seconded. The motion was approved by a supermajority of the TSC:

Name	Company	Representing (This is the sort field.)	Voting status	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X		
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A			
Larry Schoeneman	Designlab Chicago, Inc.		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X		
Mike Garl	James Thomas Engineering, Inc.		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner	PLASA	PLASA	A	X		
Bill Groener	PRG Lighting North Bergen		P	X		
David Johnson	Live Design (Prism Business Media)		P	X		
Mark Engel	Rosco Laboratories		P	X		
Bill Sapsis	Sapsis Rigging, Inc.		P	X		
Colin Waters	TMB		P			
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	X		
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A			
Florian von Hofen	VPLT	VPLT	P			
Eckart Steffens	SOUNDLIGHT	VPLT	A			
Total votes possible			16	14	0	

8.2.8 Rigging 15:35

8.2.8.1 BSR E1.1-200X – Wire rope ladders

Bill Sapsis reported that no comments had been received during the last public review.

8.2.8.2 BSR E1.2-200x – Aluminum towers and trusses

Bill Sapsis reported that comments on typographical errors had been received during the last public review. There were no comments on substantive issues.

8.2.8.3 E1.4 – Manual Rigging Systems

Karl Ruling reported that a handful of people had commented during the last public review. Some of the comments were about word choices, but others, if accepted, would make substantive changes to the document. This is the eighth public review of the document, which has been in process for over ten years if the work on it by USITT is included, and members of the theatre consulting community are now beginning to pay attention to it.

8.2.8.4 E1.6-1 and E1.6-2 – Powered Rigging Systems

Bill Sapsis reported that BSR E1.6-1 (winches) is being worked on

Ruling explained that a clear majority of the Rigging working group has voted by letter ballot to offer BSR E1.6-2 (chain hoists) for public review, but that there had been some disagreement. The recirculation vote will close at the working group meeting.

8.2.8.5 E1.8 – Speaker Enclosures Rigging Standard

Ruling said that it still needs to be laid out for publication.

8.2.8.6 E1.15 – Boom & Base Assemblies

Ruling reported that the ESTA Board approved it. He needs to submit it to ANSI.

8.2.6.7 E1.21 – Portable roof systems

Bill Sapsis reported that the working group had agreed on a set of comments resolutions and now had two documents to consider for acceptance as American National Standards.

Ruling explained that at the last meeting the working group had expressed a desire to fix the dates of the referenced standards as the "most recent" ones during the last public review. However, some of the references were not to the "most recent" one, so any version could have been used, not simply the one in effect during the public review. Therefore, he is uncomfortable with setting these dates without an additional public review. The working group can therefore decide to accept the edition that was last offered for public review, or to offer the new edition with fixed dates for another review. The working group could also vote to accept the new edition without an additional review, but Ruling did not recommend this.

8.2.6.8 E1.22 – Fire curtain systems

8.2.6.8.1 Public review report.

Bill Sapsis reported that the document is in public review now, and will be until March 29.

8.2.6.8.2 Request for fire modeling funding

Harvey Sweet explained the need for the study. There is little data on how fire safety curtains are actually supposed to enhance safety. The draft E1.22 document in public review is based on existing information, which is not much. The fire modelling would add to the body of knowledge. The funding proposal is based on Rodney Kaiser managing the project and working with an higher-education institution. Graduate students can do the work.

Steve Terry praised the project but said we did not have the money to fund it. Mitch Hefter suggested that USITT should be approached. USITT has a grant program and more funds.

Bill Conner suggested that if the proposal looked at controlling fire on stage, not simply at how fire safety curtains should work, there could be many parties interested in funding the study.

Mike Wood suggested splitting the question into two: Do we think this is a good project? Shall we fund this? We may be able to say this is a good project that we support, but not with money, because we don't have it.

Robin Crews suggested that ASTC would be more interested if the project is about researching what happens in a fire. ASTC can not fund it from their budget, but they would be likely to be interested and could help in getting other backers.

Harvey Sweet asked for approval of the concept and statement that it is a worthy project.

Steve Terry and Mike Wood said that the TSC would be inclined to support the project to the extent it can if it has the support of the Rigging Working Group.

Mike Wood said, "We want you to tell us what is the right scope for a project to get us the information needed for what you want to do."

Terry said that it is inappropriate for the TSC to rule on this without knowing the consensus of the Rigging Working Group.

Mike Garl summarized the TSC's consensus that the project has merit, but the Rigging Working Group needs to come to a consensus on the project before the TSC will formally consider it.

8.3 Report on P&P revision

Ruling reported that the new Policies and Procedures document (version 6) had been approved by the ESTA Board and that he had sent it to ANSI for approval there and to comply with the results of our audit and the 2005 ANSI Essential Requirements compliance form.

8.4 Report on liaisons and news from other industry groups 16:00

8.4.1 PLASA

Ron Bonner reported that the WEEE regulations in the UK have been delayed but that RoHS is in force. Avolites has appealed for an extension for compliance because need past July to come into compliance. We can support this motion by offering comments on the Europa website.

PLASA's rigging certification program is going well. Many companies and many individuals are involved—large numbers for such a country as small as the UK.

8.4.2 USITT

The RP2 for lighting graphics is in public review through March, reported Mitch Hefter.

8.4.3 ASTC

Bill Conner offered no report

8.4.4 VPLT

No report. No VPLT representative present.

8.4.5 UL liaison

Ken Vannice reported that UL is moving toward making UL 1573 an ANSI standard without significant modifications. This is what we've wanted.

8.4.6 CANENA liaison

No report.

8.4.7 NFPA liaison

8.4.7.1 NFPA 70 (NEC)

Mitch Hefter reported on the NEC Report on Proposals meetings and that there is a new article 519 for ride control for amusement attractions. The rumored combination of 520 and 530 will not happen. The neutral power feeder conductor will not have to be derated for sine-wave dimmers.

Ken Vannice reported that the definitions for grounding, bonding, and neutrals have been changed.

8.4.7.2 NFPA 80 [Conner]

Bill Conner reported that the Report on Proposals is done and the ballot is out for recirculation. NFPA 80 now includes a new chapter on fabric fire safety curtains.

8.4.7.3 NFPA 101 (Life Safety Code) and 5000 (building code)

No report.

8.4.7.4 NFPA 1126 (proximate pyro) and 160 (flame effects)

No report.

8.4.8 ICC [Conner]

Bill Conner reported that the 2006 version should be available soon. March 24 is the deadline for the receipt of code change proposals.

8.4.9 Other liaisons

Lori Rubinstein reported that ETCP candidates were sent their pass and failure notices last week. The people who passed are listed on the website. There are 97 arena and 111 theatre certified riggers. Seventy-five people are certified in both. The computer-based tests start March 15. The electrical subject matter experts meet in two weeks to start exam-writing.

8.5 Review of action items from last meeting not covered above

None.

9 New Business 16:25

9.1 Maintenance of Email reflector archive

Mike Wood spoke about the problems with the archived reflector system. It is difficult to maintain properly and not used much.

Steve Terry moved that we discontinue the archived email reflector system. The motion was seconded and then approved with a unanimous show of hands.

Mike Wood said we can easily provide a non-archived email reflector for any group that requests it. We can give the group leader a password so he or she can maintain the alias list, thus reducing the burden on ESTA staff.

9.2 Representative to FAA committee on high-intensity outdoor lighting

The request from the FAA for us to have a representative at the meeting to write a standard for high-intensity outdoor lighting was discussed. He consensus was that Karl G. Ruling, the Technical Standards Manager, shall attend the meeting.

9.3 Richard Cadena publication permission request

Bill Sapsis moved that Richard Cadena be granted permission to use the information from our control standards as described in chapters 15 through 17 of the draft *Automated Lighting: The Art and Science*. The motion was seconded. The motion was approved by a unanimous show of hands.

9.4 Jerry Gorrell

Karl Ruling reported that Jerry Gorrell has offered to donate about 24 hours per month to help him with his standards management work. Gorrell said that a title would be nice, but not necessary.

Steve Terry moved that we accept his proposal. The motion was seconded and approved unanimously. Mike Wood suggested we call Jerry Gorrell the "Technical Standards Coordinator." Gorrell shall report to the Technical Standards Manager.

10 Other business

Bill Groener reported on the Las Vegas Convention Center problem, a move to ban the use of double-ended tungsten halogen lamps, which this has been interpreted in some cases to ban all forms of theatrical lighting. This would make staging LDI at the LVCC extremely difficult.

ESTA is working on a letter to the LVCC pointing out the difficulties caused by this ban and is alerting other groups to the problem so we can have a united front.

11 Schedule for future meetings

It was announced that the next meeting would be from 13:00 to 17:00 on Wednesday, 29 March 2006, at the Louisville Marriott Downtown at 280 West Jefferson Street in Louisville, Kentucky.

12 Adjournment

Larry Schoeneman moved that the meeting adjourn. The motion was seconded. The motion was approved by a unanimous show of hands. Mike Garl declared the meeting adjourned at 16:01.

Technical Standards Committee Membership as of 10 March 2006

Name	Company	Representing	Voting status
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A
Larry Schoeneman	Designlab Chicago, Inc.		P
Steve Terry	Electronic Theatre Controls, Inc.		P
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P
Edwin S. Kramer	I.A.T.S.E. Local 1		P
Mike Garl	James Thomas Engineering, Inc.		P
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P
Mike Wood	Mike Wood Consulting LLC		P
Matthew Griffiths	PLASA	PLASA	P
Ron Bonner	PLASA	PLASA	A
Bill Groener	PRG North Bergen		P
David Johnson	Live Design (Prism Business Media)		P
Mark Engel	Rosco Laboratories		P
Bill Sapsis	Sapsis Rigging, Inc.		P
Colin Waters	TMB		P
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A
Florian von Hofen	VPLT	VPLT	P
Eckart Steffens	SOUNDLIGHT	VPLT	A