

Minutes
Technical Standards Committee
Wednesday, 16 March 2004
Westin Long Beach
Long Beach, CA

Chairman: Paul Vincent; Vincent Lighting Systems; P

Recording secretary: Karl G. Ruling; ESTA

Members attending: William Conner; Schuler & Shook Inc., representing the American Society of Theatre Consultants; P
Steve Terry; Electronic Theatre Controls; P
Mitch Hefter; Entertainment Technology (Genlyte Thomas Group LLC); P
Edwin S. Kramer; I.A.T.S.E, Local 1; P
Larry Schoeneman; Interesting Products, Inc.; 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; P
Ron Bonner; PLASA; A
Mark Engel; Rosco Laboratories; P
Rodney F. Kaiser; J.R. Clancy Inc., representing USITT ; P
Lori Rubinstein; ESTA; ex officio

Robin Crews had sent regrets for not being able to attend.

Visitors: Katie Geraghty; ESTA
Donald Guzauckas, Jr.; I.C.I.A. Rental and Staging Council
Tim Hansen; Oasis Stage Werks
Roger L. Lattin; IATSE Local 728
Bob Luther; Lex Products

1 Opening remarks

Paul Vincent called the meeting to order at 13:06. The room was set for 40, far more than were present, so Vincent asked people to move closer to the head of the table.

2 Attendance and membership

2.1 Taking attendance

A chartreuse sign-in attendance sheet was circulated while people introduced themselves. Vincent noted that a quorum was present.

2.2 Welcome to visitors

Paul Vincent welcomed the visitors. He informed them that they may speak, but that he reserved the right to restrict comments from visitors if time becomes a problem.

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

Name	Company	Representing	Voting status
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A
Steve Terry	Electronic Theatre Controls, Inc.		P
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group LLC)		P
Mike Wood	Mike Wood Consulting LLC		P
Edwin S. Kramer	I.A.T.S.E, Local 1	I.A.T.S.E. Local 1	P

Name	Company	Representing	Voting status
Larry Schoeneman	Interesting Products, Inc.		P
Mike Garl	James Thomas Engineering, Inc.		P
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P
Matthew Griffiths	PLASA	PLASA	P
Tony Douglas-Beveridge	PLASA	PLASA	A
Ron Bonner	PLASA	PLASA	A
Mark Engel	Rosco Laboratories		P
Frank Stewart	Specialty Tech Services		P
Colin Waters	TMB		P
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A
Paul Vincent	Vincent Lighting Systems		P
Florian von Hofen	VPLT	VPLT	P
Eckart Steffens	SOUNDLIGHT	VPLT	A
			15

3 Approval of minutes from the previous meeting

Steve Terry moved that the draft minutes of the January 2004 meeting be approved as written. The motion was seconded. The motion was approved by a unanimous show of hands.

4 Call for patents

The following statement was read aloud to the assembly by Paul Vincent

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

"In keeping with the open disclosure policy, I ask if anyone present wishes to notify the Technical Standards Committee of the existence of a patent or copyright that might protect material in a standard being developed by a working group. You need not be the holder of the patent or copyright in order to notify the TSC of its existence."

No issues were brought to the attention of the assembly.

5 Anti-trust statement

The following statement was read aloud to the assembly by Paul Vincent

"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 \$100,000 and imprisoned for up to three years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

No issues were brought to the attention of the assembly.

6 Approval of agenda

Eddie Kramer moved that the agenda be approved as written. The motion was seconded. The motion was approved by a unanimous show of hands.

7 Distribution of ESTA committee contact information

Lori Rubinstein distributed the contact lists. Paul Vincent asked for any changes or additions. None were offered.

8 Old business

8.1 Financial reports

8.1.1 Treasurer's report

Frank Stewart was not present. Paul Vincent reported that there wasn't a report for this meeting. It is early in the year, and the data is not available.

8.1.2 Status of contributions and pledges

Lori Rubinstein reported that donations are still good, and that donations to the ETCP do not seem to have reduced donations to the TSP.

8.1.3 Accounting of TSP documents sold and on-hand

Lori Rubinstein said that she had not received any updated sales reports from ANSI or USITT.

8.2 Working group reports

8.2.1 Camera Cranes

8.2.1.1 Vote on handbook public review motion

Eddie Kramer moved that the TSC approve the Camera Crane Working Group's motion to make the draft camera crane operator's handbook available to the public for review. The motion was seconded. The motion was approved by a unanimous vote (a clear supermajority) on a roll call ballot.

Name	Company	Representing	Voting status	Yes	Yes w/ comments	No w/ reasons	Abstain
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P	X			
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A				
Steve Terry	Electronic Theatre Controls, Inc.		P	X			
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group LLC)		P	X			
Mike Wood	Mike Wood Consulting LLC		P	X			
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	X			
Larry Schoeneman	Interesting Products, Inc.		P	X			
Mike Garl	James Thomas Engineering, Inc.		P	X			
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X			
Matthew Griffiths	PLASA	PLASA	P	X			
Tony Douglas-Beveridge	PLASA	PLASA	A				
Ron Bonner	PLASA	PLASA	A				
Mark Engel	Rosco Laboratories		P	X			
Frank Stewart	Specialty Tech Services		P				
Colin Waters	TMB		P				
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	X			
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A				
Paul Vincent	Vincent Lighting Systems		P	X			
Florian von Hofen	VPLT	VPLT	P				
Eckart Steffens	SOUNDLIGHT	VPLT	A				
			15	12	0	0	0

8.2.1.2 BSR E1.12 (camera crane standard)

No report. Ruling said that no further meetings had been held since the October meeting of the working group, so he had no news.

8.2.2 Control Protocols

8.2.2.1 E1.11 (DMX512A)

A set of proposed comment resolutions have been drafted and submitted to the working group, reported Steve Terry. If they are accepted, the group needs to discuss if they have resulted in substantive changes. If not, there will be a motion to accept E1.11 as an American National Standard.

8.2.2.2 E1.27-x (cabling)

The first document in this suite of cabling standards is now in public review, reported Terry. It is for portable cabling.

8.2.2.3 E1.17 (ACN)

Comment resolution is proceeding, reported Terry.

8.2.2.4 E1.20 (RDM)

Comment resolution also is proceeding with this document, reported Terry.

8.2.3 Fog and Smoke

8.2.3.1 BSR E1.23 (general fog effect planning and execution standard)

Larry Schoeneman moved that BSR E1.23 (F&S/2002-3014r6) be sent to public review. The motion was seconded. The motion was accepted by a unanimous roll call vote.

Name	Company	Representing	Voting status	Yes	Yes w/ comments	No w/ reasons	Abstain
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P	X			
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A				
Steve Terry	Electronic Theatre Controls, Inc.		P	X			
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group LLC)		P	X			
Mike Wood	Mike Wood Consulting LLC		P	X			
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	X			
Larry Schoeneman	Interesting Products, Inc.		P	X			
Mike Garl	James Thomas Engineering, Inc.		P	X			
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X			
Matthew Griffiths	PLASA	PLASA	P	X			
Tony Douglas-Beveridge	PLASA	PLASA	A				
Ron Bonner	PLASA	PLASA	A				
Mark Engel	Rosco Laboratories		P	X			
Frank Stewart	Specialty Tech Services		P				
Colin Waters	TMB		P				
Rodney F. Kaiser	J.R. Clancy Inc.	USITT	P	X			
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A				
Paul Vincent	Vincent Lighting Systems		P	X			
Florian von Hofen	VPLT	VPLT	P				
Eckart Steffens	SOUNDLIGHT	VPLT	A				
			15	12	0	0	0

8.2.3.2 Guidance document for fire alarms and fire detection systems

Larry Schoeneman had attended a special effects technical meeting in Quincy, MA for NFPA 1126 and 160. He had tried to slip in some proposals for reducing false alarms. On the last day of the meetings a vote was held, but the proposal was rejected because the group wanted the proposal to speak to fire alarm manufacturers. There is the possibility that the changes that will help the interests of fog and haze users may be introduced in NFPA 72 in this revision cycle. If that fails, almost certainly the changes will be accepted in the next cycle.

Schoeneman also reported that it is likely that Greg Meeh will become Jere Harris's alternate on this committee, which would also be good for our interests.

8.2.4 Followspot position

Karl Ruling reported that the working group seems to be well-organized for its first meeting as part of the Technical Standards Program. Applications from the active participants had been received, and an agenda had been distributed. The group has already done some work to refine what they want to do, so a lot of the usual initial missteps should be avoided.

8.2.5 Photometrics

8.2.5.1 BSR E1.25 (flat-wall photometry basic conditions)

Karl Ruling reported that the working group had voted by letter ballot to accept the comment resolutions for the last public review, but the motion had neglected to list the next logical step: sending it to public review again. This will have to be decided at the next meeting.

8.2.5.2 Review of data sheets attempting to conform to ANSI E1.9

Ruling reported that some sample sheets had been prepared. While ESTA does not test or certify that anything conforms to any standard, these sheets will probably be offered to the public (manufacturers, presumably) as starting points for developing their own data sheets. Some sheets are starting to appear on the market that at least attempt to conform to the standard.

8.2.6 Rigging

8.2.6.1 E1.1 (wire rope ladders)

Mike Garl reported that it's in a concurrent public review and working group reaffirmation vote.

8.2.6.2 E1.2 (aluminum towers and trusses revision)

Garl reported that it's in public review.

8.2.6.3 E1.4 (manual rigging systems)

Garl reported that the working group has a comment resolutions document and a revised draft standard. If these are approved by the working group, the draft standard will need to go to public review again.

8.2.6.4 E1.6 (powered rigging systems)

Garl reported that the task group is meeting even as we speak to work on comment resolutions.

8.2.6.5 E1.7 (recommended practice for flying performers)

Garl reported that the working group voted to kill the project. People are interested in it, but they don't come to the meetings.

8.2.6.6 E1.8 (speaker enclosures rigging standard)

Mike Garl reported that comment resolutions have been drafted. If they are accepted, there probably haven't been any substantive changes to the document, and the working group can then consider adopting it.

8.2.6.7 E1.15 (manufacture, assembly, and use of theatrical boom & base assemblies)

Garl reported that it's in public review.

8.2.6.8 E1.21 (portable roof systems)

Garl reported that it's in public review.

8.2.6.9 E1.22 (fire safety curtain systems)

Garl reported that the task group is working to resolve public review comments.

Bill Conner, who is the task group leader, asked Lori Rubinstein for more meeting time at the July meetings in Ft. Worth. The document has been massively reorganized, so there is much work to be done. Conner said that the project is difficult because there is little technical data for guidance and no consensus on how a fire safety curtain is supposed to work to enhance safety.

8.2.6.10 Motor connector project

This project has been removed from the working group's agenda, reported Garl. It was never formally adopted as a project, and the parties promoting it have done no work on it.

8.2.7 Electrical Power

8.2.7.1 E1.18 (recommended practice for selection, installation, and use of portable feeder cable)

Ken Vannice reported that Eddie and his task group have drafted a very large, extensive document. The working group had spent several hours discussing it and had votes to offer guidance on how it needs to be changed to make it more useful. The January 2005 meeting is the meeting at which it is likely it will be voted on for public review. Comments from the working group have been requested to be sent to the task group before May 1.

8.2.7.2 E1.19 (recommended practice for use of residual current devices in entertainment applications)

Bob Luther reported that it's 85% written, but it will take two more meeting cycles to get it to the point of a vote for public review.

8.2.7.3 E1.24 (pin connector intermateability standard)

Vannice reported that the hope is that this will move quickly, since it is a USITT document that needs minimal work. Mitch Hefter reported on some problems with getting responses from the task group members and with the email reflector.

8.2.8 Floors

Tim Hansen reported that the working group has a draft BSR E1.26 document that deals with floor energy absorption. He also reported that he has a possible co-chair, but the candidate needs a little more time to consider the proposition.

8.3 Report on liaisons and news from other industry groups

8.3.1 PLASA news

Matthew Griffiths reported that PLASA is recruiting a technical resources officer to help Ron Bonner.

Ron Bonner reported on the problems of complying with BGV-C1, since it is in German. A translation is in the works, however, paid for by the German insurance agency. There will be a policy of translating the VPLT/BGV standards in the future.

Griffiths reported on the launch of *Lighting & Sound America*, a sister publication of *Lighting & Sound International*. He said that they will support ESTA and the TSP.

Steve Terry asked if there was an update on the possible collaboration between PLASA and the TSP. Griffith said that there was no news on this. It is not a dead proposal, but there won't be any news until a way forward is found. Bonner reported on some interest by a handful of people for a PLASA standards steering committee.

8.3.2 USITT news

No news, reported Rodney Kaiser.

8.3.3 ASTC news

Bill Conner reported that there is a reception on the UITT trade show floor to honor ASTC.

8.3.4 VPLT news

No VPLT representatives were present. No report.

8.3.5 UL liaison

Ken Vannice reported that there are interesting things going on in UL. Among them, an engineer announced that CSA components will not be accepted in C-UL listed devices on the basis of the CSA listing. The only way to use CSA-listed components is for the manufacturers having products containing CSA-listed components to turn over the CSA test data to UL for review by UL. The UL customer service department doesn't know that this change is being instituted by the engineering department. Vannice thinks this is evidence of a major fight between CSA and UL. Leviton is UL's tenth largest customer, so Vannice thinks that Leviton may be successful in making UL understand the problems that this change is causing its customers.

Steve Terry reported that UL has listed an emergency transfer system being sold for use in public assembly occupancies by showing it complies with UL 924, Standard for Emergency Lighting and Power Equipment, rather than the more appropriate UL 1008, Standard for Transfer Switch Equipment. UL 924, according to the standard's scope, has not been investigated to determine if it complies with the requirements in Article 700 (Emergency Systems) or Article 701 (Legally Required Standby Systems) of the National Electrical Code, ANSI/NFPA 70. UL 1008 is specifically for automatic transfer switches and by-pass/isolation switches for use in emergency systems complying with Articles 700 and 701, among others. He has sent a formal query on this, and received an answer very quickly that UL is going to take a position with which other agencies may disagree, but that UL is interested in a dialog on this.

8.3.6 CANENA liaison

Vannice reported that the next meeting is this coming Sunday and Monday (March 22 and 23).

8.3.7 NFPA liaison

8.3.7.1 NFPA 70 (NEC)

Mitch Hefter reported that the Report On Comments comes out in April, and is presented to the NFPA membership in May in Salt Lake City. The actions in the ROC should be approved by August.

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

Conner said the Temporary Interim Amendments were ratified. There was a discussion of the rejection of the proposal to remove the exemption for churches. These do not have to meet the sprinkler requirements of other places of public assembly of similar sizes.

8.3.7.3 NFPA 1126 (indoor pyro) and 160 (flame effects)

There was no additional report from Schoeneman. This topic was covered under the Fog & Smoke Working Group report.

8.3.7.4 NFPA 80

Conner reported that there is a fire safety curtain task group in the NFPA technical committee for NFPA 80 (fire doors and windows), and that he is on it. There will be a meeting in Seattle, and the committee will visit several theatres to see what fire curtains are.

8.3.8 JASST – Japan Association of the Safety Staging Technology liaison

No news, reported Lori Rubinstein.

Terry suggested that this and the following items through 8.3.11 could be removed as a standing agenda items and simply be covered as other liaison.

8.3.9 Opera America (fog proposal)

Ruling said that he will be presenting a combination of the *Introduction to Modern Atmospheric Effects* talk and the fog testing program talk.

8.3.10 Infocomm liaison

Lori Rubinstein reported on an informal proposal for a standard for remote control of projectors. That may be brought to us formally.

8.3.11 Technologies for Worship liaison

Karl Ruling is doing a couple of sessions at the Inspiration trade show in May, reported Rubinstein. He'll also man a small booth.

8.3.12 Certification Program liaison or news

Lori Rubinstein introduced Katie Geraghty. She also reported that ICIA has joined the certification council. These are the owners of the InfoComm trade show, and their members do rigging and electrical work on industrials and trade shows. IATSE and Clear Channel have made major donations, so we are well on the road to reaching the goal for starting the program.

Rubinstein described the progress of each skills group.

8.3.13 LFEIC report

Vannice had no news. He will continue to watch.

8.4 Review of action items from last meeting not covered above

None.

9 New Business

None.

10 Other business 16:45

Lori Rubinstein reported that Karl Ruling had gotten requests from the Nuclear Regulatory Commission for his *Protocol* story about krypton 85-containing lamps. He'd also received a formal thank you letter for supplying copies of the article, and praise for the quality of the article.

Rubinstein also reported that ESTA is receiving an Eddie award this year.

Paul Vincent asked about the format of the new *Standards Watch*. The consensus was that the new single-column format is good.

11 Schedule for future meetings

The meeting schedule was announced by Rubinstein. The next TSC meeting is scheduled for Friday, 16 July 2004, 13:00 to 17:00 at the Dallas/Ft. Worth Airport Marriott South. The following one will be Wednesday, 20 October 2004, 13:00 to 17:00 at a hotel still to be determined.

Rubinstein reminded people that the hotels in Las Vegas are less accommodating for business meetings than they are elsewhere. Meeting rooms will be difficult to add at the last minute, so people should work to anticipate their needs and order early.

12 Adjournment

Larry Schoeneman moved that the meeting adjourn. The motion was seconded. The motion was approved by an unanimous voice vote. Paul Vincent declared the meeting adjourned at 14:56

Membership and Contact Information as of 05 May 2004

Name	Company	Representing	Voting status
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A
Steve Terry	Electronic Theatre Controls, Inc.		P
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group LLC)		P
Edwin S. Kramer	I.A.T.S.E, Local 1	I.A.T.S.E. Local 1	P
Larry Schoeneman	Interesting Products, Inc.		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
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Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A
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Florian von Hofen	VPLT	VPLT	P
Eckart Steffens	SOUNDLIGHT	VPLT	A