

Minutes
Technical Standards Committee
Friday, 14 January 2005
Dallas/Ft. Worth Airport Marriott South
Ft. Worth, TX

Chairman: Paul Vincent; Vincent Lighting Systems; P

Recording secretary: Karl G. Ruling; ESTA

Members attending: William Conner; Schuler & Shook Inc., representing Amer. Society of Theatre Consultants; P
Robin Crews; Wrightson, Johnson, Haddon & Williams, Inc., representing Amer. Society of Theatre Consultants; A
Bill Groener; Color Kinetics Incorporated; P
Ken Vannice; Colortran; (Leviton Manufacturing Co., Inc.); P
Steve Terry; Electronic Theatre Controls; P
Mitch Hefter; Entertainment Technology; (Genlyte Group LLC); P
Lori Rubinstein; ESTA; ex officio
Edwin S. Kramer; I.A.T.S.E. Local 1; P
Larry Schoeneman; Interesting Products, Inc.; P
Mike Garl; James Thomas Engineering, Inc.; P
Mike Wood; Mike Wood Consulting LLC; Wood Consulting LLC; P
Ron Bonner; PLASA; A
Mark Engel; Rosco Laboratories; P
Frank Stewart; Specialty Tech Services; P
Colin Waters; TMB; P
Rodney F. Kaiser; J.R. Clancy Inc., representing USITT; P

Visitors: Tim Hansen; Oasis Stage Werks
Louis Bradfield; Bally's Las Vegas
Roger L. Lattin; IATSE Local 728
Kent Jorgensen; IATSE Local 80

1 Opening remarks

Paul Vincent called the meeting to order at 13:02.

2 Attendance and membership

2.1 Taking attendance

A dull green attendance sign-in sheet was circulated.

2.2 Welcome to visitors

Paul Vincent welcomed everyone to the meeting, and gave a special welcome to the visitors and to Bill Groener, the new ESTA President. The ESTA President is a TSC member, so Bill Groener was once again a member of the TSC.

The full consensus body, including those not present, was sixteen votes:

Name	Company	Representing	Voting status
Bill Groener	Color Kinetics		P
Colin Waters	TMB		P
Edwin S. Kramer	I.A.T.S.E, Local 1		P
Frank Stewart	Specialty Tech Services		P

Name	Company	Representing	Voting status
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P
Larry Schoeneman	Interesting Products, Inc.		P
Mark Engel	Rosco Laboratories		P
Mike Garl	James Thomas Engineering, Inc.		P
Mike Wood	Mike Wood Consulting LLC		P
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P
Paul Vincent	Vincent Lighting Systems		P
Steve Terry	Electronic Theatre Controls		P
William Conner	Schuler & Shook Inc.	Amer. Society of Theatre Consultants	P
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Amer. Society of Theatre Consultants	A
Matthew Griffiths	PLASA	PLASA	P
Ron Bonner	PLASA	PLASA	A
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

3 Approval of minutes from the previous meeting

Larry Schoeneman moved that the minutes of the October 2004 meeting be approved as written. The motion was seconded. The motion was approved with a unanimous show of hands.

4 Call for patents

The following 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 protected property issues were brought to the attention of the assembly.

5 Anti-trust statement

The following 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."

Karl Ruling held up a couple of the pamphlets. No anti-trust, restraint-of-trade issues were raised by any of the attendees.

6 Approval of agenda

Paul Vincent suggested that we discuss changing the meeting schedule and moving the TSC meeting time under "Other business." He also asked that the existing topic under "Other business" (TSC chairmanship) be handled as the next item of business, after the approval of the agenda.

Steve Terry moved that the agenda with these changes be approved with these changes. The motion was seconded. The motion was approved with a unanimous show of hands.

7 TSC chairmanship

Paul Vincent announced that Mike Garl has been asked to be the chairman of the TSC and that he has accepted. Paul Vincent said Garl will chair the next meeting with Paul Vincent present, and that he (Paul Vincent) will be leaving the TSC after the March meeting. Paul Vincent thanked all the TSC members present for their help and said it has always been a pleasure.

Mike Garl said he will resign as co-chair of the Rigging Working Group. Bill Sapsis will continue as the chairman of that group. A new co-chair will be selected.

8 Distribution of ESTA committee contact information

Lori Rubinstein asked about the paper distribution of this information. The consensus was that this information is now on the ESTA website and does not need to be distributed in paper form.

9 Old business

9.1 Financial reports

9.1.1 Treasurer's report

The TSP budget is somewhat over budget, Lori Rubinstein reported, and this was because of the TSP tenth anniversary celebrations and the cost of the promotional campaign. Actual operating expenses are in line.

There was a discussion of the changes that will be coming in the accounts reporting. There will be fewer pages and numbers distributed. This is partially being driven by changes in our accounting procedures and adoption of new accounting software, which are being done to relieve the executive director of much of the bookkeeping tasks.

Rubinstein explained that staff costs are now included in the program to better reflect the costs of the program. The staff costs include costs for travel.

9.1.2 Status of contributions and pledges

There was a discussion of the continued funding of the Technical Standard Program. Contributions continue to decline while costs increase. Bill Groener argued that the new accounting was important because it better reports the actual expenses, and there will be other sources of funding that can only be used properly if our expenses are accurately expressed.

9.1.3 Accounting of TSP documents sold and on-hand

Lori Rubinstein said she does not have an update from our vendors. She also reported that USITT will pay us the money owed for the past under-reported sales over a period of two years.

9.2 Working group reports

9.2.1 Camera Cranes

9.2.1.1 Crane handbook update

Kent Jorgensen reported that the idea of revising the handbook had been dropped. The objections to the handbook had been successfully argued against.

Jorgensen also said that no one on the working group cares if the handbook is published in color or B&W.

Karl Ruling asked Kent Jorgensen for the pictures as separate files to assist in laying out the book. The pictures embedded in the Word document won't reproduce well, having gone through too many conversions.

The selling price of the document was discussed. Mike Wood moved that the camera crane handbook be priced to sell for \$10.00 in single hard-copy. The motion was seconded. The motion was approved with a unanimous show of hands.

Steve Terry moved that we formulate a policy for one-time licensing of PDFs to qualified organizations. The motion was seconded. The motion was approved with a unanimous show of hands.

Terry moved that standards up to 50 pages in length be sold to qualified organizations as a PDF file for \$1,000. The motion died for lack of a second.

There was discussion of the previous motion. Paul Vincent asked for volunteers for a task group to work on developing this pricing policy. Larry Schoeneman, Mark Engel, and Kent Jorgensen volunteered. Paul Vincent gave the task group the charge of developing a report in time for consideration at the USITT meeting.

Kent Jorgensen reported that Ed Clare has stepped down as co-chairman of the Camera Cranes Working Group. Kent Jorgensen said that Louis Therrien is willing to serve and has the support of the working group. Mike Wood moved that Louis Therrien be appointed as co-chair with Kent Jorgensen. The motion was seconded. The motion was approved with a unanimous show of hands.

9.2.1.2 BSR E1.12 progress

Jorgensen said the working group will have a meeting at NAB in April, at Cinegear in June (3-4), and sometime in the Fall.

9.2.2 Control Protocols

9.2.2.1 E1.11 (DMX512-A)

9.2.2.1.1 Publication progress report

The document should be off press next week, said Lori. It is available as a PDF from the ANSI website right now.

9.2.2.1.2 Discussion of VPLT's German/English proposal

Karl Ruling explained that we have two proposals: one from Eckart Steffens as a private company wishing to publish the document and one from VPLT.

Eddie Kramer moved that we license E1.11 to VPLT as the exclusive German publisher, that any member of the World ETF be able to license our documents for translation into their native language, and that the English version be included with the translated text for side-by-side comparison. The motion was seconded. The motion was approved with a unanimous show of hands.

Paul Vincent gave the pricing task group the charge of considering the pricing for this document also.

9.2.2.2 E1.27-x (Cabling) public review report

Steve Terry reported that it is in comment resolution.

9.2.2.3 E1.17 (ACN) progress

Steve Terry moved that the TSC send the set of revised draft BSR E1.17 documents to public review. The motion was seconded. The motion was approved with 14 of the 15 present voting yes and one voting to abstain.

Name	Company	Representing	Voting status	Yes	No	Abstain
Bill Groener	Color Kinetics		P			X
Colin Waters	TMB		P	X		
Edwin S. Kramer	I.A.T.S.E, Local 1		P	X		
Frank Stewart	Specialty Tech Services		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Larry Schoeneman	Interesting Products, Inc.		P	X		
Mark Engel	Rosco Laboratories		P	X		
Mike Garl	James Thomas Engineering, Inc.		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Paul Vincent	Vincent Lighting Systems		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
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			
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner	PLASA	PLASA	A	X		
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			
			16	14	0	1

Groener voted to abstain because he had been left off the document distribution list by Karl G. Ruling, the Technical Standards Manager, and therefore had not had an opportunity to review the documents.

9.2.2.4 E1.20 (Remote Device Management) public review report

Steve Terry reported that it is in comment resolution.

9.2.2.5 E1.11 recommended practice

Tim Bachman is leading that project, reported Steve Terry, and it is making progress.

9.2.3 Electrical Power

9.2.3.1 E1.18 - A recommended practice for selection, installation, and use of portable feeder cable.

Ken Vannice reported that the task group is meeting Saturday, 15 January. He hopes to have a document for the working group to consider for public review at the March meeting.

9.2.3.2 E1.19 - A recommended practice for use of residual current devices in entertainment applications.

Ken Vannice reported that the task group has been working and will be meeting Saturday, 15 January. He hopes to have a document for the working group to consider for public review at the March meeting.

9.2.3.3 E1.24, pin connector intermateability standard

Ken Vannice moved that BSR E1.24, Entertainment Technology—Dimensional Requirements for Stage Pin Connectors (EP/2003-7005r1.1), be offered for public review. The motion was seconded. The motion was approved with 14 of the 15 present voting yes and one voting to abstain. Groener voted to abstain because he had not had an opportunity to review the document.

Name	Company	Representing	Voting status	Yes	No	Abstain
Bill Groener	Color Kinetics		P			X
Colin Waters	TMB		P	X		
Edwin S. Kramer	I.A.T.S.E, Local 1		P	X		
Frank Stewart	Specialty Tech Services		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Larry Schoeneman	Interesting Products, Inc.		P	X		
Mark Engel	Rosco Laboratories		P	X		
Mike Garl	James Thomas Engineering, Inc.		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Paul Vincent	Vincent Lighting Systems		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
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			
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner	PLASA	PLASA	A	X		
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			
			16	14	0	1

9.2.4 Floors, BSR E1.26

Tim Hansen said that a motion to offer the draft BSR E1.26 for public review is being decided by the working group by letter ballot.

Tim Hansen reported that Jerry Gorrell has volunteered to serve as the working group co-chairman. Eddie Kramer moved that Jerry Gorrell be appointed as the working group co-chair. The motion was seconded. The motion was approved by a unanimous show of hands.

9.2.5 Fog and Smoke

9.2.5.1 BSR E1.23 – General fog standard public review report

Larry Schoeneman reported that the public review closed in December with very few comments. Karl Ruling reported that the working group had planned to have a meeting by conference call before the TSC meeting, so whatever actions that would arise out of the F&S meeting could be dealt with at this one. However, the main item of business would have been resolving the comments, and Ruling is the principal task group member on the document, and it became obvious he could not get draft resolutions done for the working group before this January meeting cycle. Therefore no conference call meeting was held.

9.2.5.2 Introduction to Modern Atmospheric Effects revision

Larry Schoeneman reported that it is in public review.

9.2.6 Followspot position

Robin Crews reported that the working group had a brief but productive meeting in Las Vegas on 22 October. The document is proceeding, with some areas moving faster than others.

9.2.7 Photometrics

Ken Vannice moved that the TSC approve the third public review of BSR E1.25, Recommended Basic Conditions for Measuring the Photometric Output of Stage and Studio Luminaires by Measuring Illumination Levels Produced on a Planar Surface (Photo/2003-5001r5). The motion was seconded. The motion was approved with 14 of the 15 present voting yes and one voting to abstain. Groener voted to abstain because he had not had an opportunity to review the document.

Name	Company	Representing	Voting status	Yes	No	Abstain
Bill Groener	Color Kinetics		P			X
Colin Waters	TMB		P	X		
Edwin S. Kramer	I.A.T.S.E, Local 1		P	X		
Frank Stewart	Specialty Tech Services		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Larry Schoeneman	Interesting Products, Inc.		P	X		
Mark Engel	Rosco Laboratories		P	X		
Mike Garl	James Thomas Engineering, Inc.		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Paul Vincent	Vincent Lighting Systems		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
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			
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner	PLASA	PLASA	A	X		
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			
			16	14	0	1

9.2.8 Rigging

9.2.8.1 E1.1 – Wire rope ladders

Mike Garl reported that the resolutions to the comments on the vote to reaffirm the document had resulted in some changes to the document that resulted in the reaffirmation project becoming a revision project. The working group voted by letter ballot to offer the revised standard for public review.

Mike Garl moved that the TSC approve the motion for the public review of the revised E1.1, Entertainment Technology — Construction and Use of Wire Rope Ladders (Rig/2004-2029). The motion was seconded. The motion was approved by a vote of 12 voting yes and one voting to abstain. Colin Waters and Mark Engel were not in the room when this vote was held. Groener voted to abstain because he had not had an opportunity to review the document.

Name	Company	Representing	Voting status	Yes	No	Abstain
Bill Groener	Color Kinetics		P			X
Colin Waters	TMB		P			
Edwin S. Kramer	I.A.T.S.E, Local 1		P	X		
Frank Stewart	Specialty Tech Services		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Larry Schoeneman	Interesting Products, Inc.		P	X		
Mark Engel	Rosco Laboratories		P			
Mike Garl	James Thomas Engineering, Inc.		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Paul Vincent	Vincent Lighting Systems		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
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			
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner	PLASA	PLASA	A	X		
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			
			16	12	0	1

9.2.8.2 E1.2 – Aluminum towers and trusses

Mike Garl moved that the TSC accept the revised BSR E1.2-200X, Entertainment Technology — Design, Manufacture and Use of Aluminum Trusses and Towers (Rig/2002-2019r4), as an American National Standard. The motion was seconded. The motion was approved with 13 voting in favor and one voting to abstain. Colin Waters had returned to the room, but Mark Engel had not. Bill Groener abstained because he had not been sent the proposed document and had not had a chance to review it.

Name	Company	Representing	Voting status	Yes	No	Abstain
Bill Groener	Color Kinetics		P			X
Colin Waters	TMB		P	X		
Edwin S. Kramer	I.A.T.S.E, Local 1		P	X		
Frank Stewart	Specialty Tech Services		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Larry Schoeneman	Interesting Products, Inc.		P	X		
Mark Engel	Rosco Laboratories		P			
Mike Garl	James Thomas Engineering, Inc.		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Paul Vincent	Vincent Lighting Systems		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
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			
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner	PLASA	PLASA	A	X		
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			
			16	13	0	1

Ruling said he would send the proposed E1.2 standard to the ESTA Board for approval by letter ballot.

9.2.8.3 E1.4 – Manual Rigging Systems public review report

Mike Garl reported that the task group has completed the public review resolutions. They and the draft document will be considered by the working group at its meeting, scheduled for this evening (Friday, 14 January).

9.2.8.4 E1.6 – Powered Rigging Systems comment resolutions

Mike Garl reported that the task group is continuing to work on comment resolutions. Tom Young is stepping down as task group chairman. Ruling reported that Chris Kaiser has applied to join the working group so she can serve as the task group leader.

9.2.8.5 E1.8 – Speaker Enclosures Rigging Standard

Mike Garl reported that the working group had voted to accept BSR E1.8, Entertainment Technology—Loudspeaker Enclosures Intended for Overhead Suspension—Classification, Manufacture and Structural Testing (Rig/1997-2021r12), as an American National Standard, but there was one "Yes with comments" vote. That comment would be considered at this evening's Rigging Working Group meeting.

9.2.8.6 E1.15 – Boom & Base Assemblies

Mike Garl moved that the TSC approve the motion to offer BSR E1.15, Entertainment Technology – Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (Rig/1998-2032r11) for public review. The motion was seconded. The motion was approved with 14 voting yes and one voting to abstain. Bill Groener abstained because he had not had an opportunity to review the document.

Name	Company	Representing	Voting status	Yes	No	Abstain
Bill Groener	Color Kinetics		P			X
Colin Waters	TMB		P	X		
Edwin S. Kramer	I.A.T.S.E, Local 1		P	X		
Frank Stewart	Specialty Tech Services		P	X		
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X		
Larry Schoeneman	Interesting Products, Inc.		P	X		
Mark Engel	Rosco Laboratories		P	X		
Mike Garl	James Thomas Engineering, Inc.		P	X		
Mike Wood	Mike Wood Consulting LLC		P	X		
Mitch Hefter	Entertainment Technology (Genlyte Group LLC)		P	X		
Paul Vincent	Vincent Lighting Systems		P	X		
Steve Terry	Electronic Theatre Controls		P	X		
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			
Matthew Griffiths	PLASA	PLASA	P			
Ron Bonner	PLASA	PLASA	A	X		
Rodney F. Kaiser	J.R. Clancy Inc.		P	X		
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	USITT	A			
Florian von Hofen	VPLT	VPLT	P			
Eckart Steffens	SOUNDLIGHT	VPLT	A			
			16	14	0	1

9.2.8.7 E1.21 – Portable roof systems comment resolution

Mike Garl reported that the task group has completed a set of proposed comment resolutions and a revised document. The working group will vote to accept the resolutions and to start another public review, since the resolutions resulted in substantive changes to the document.

9.2.8.8 E1.22 – Fire curtain systems comment resolutions

Bill Conner reported that he had been the task group chairman but that Harvey Sweet is now in that role. The task group plans to have a revised document and a set of comment resolutions sent to the working group for the March meeting.

Conner said that the task group feels it needs to do some research. The expected life of a fire curtain that is raised and lowered daily is an issue. Dan Culhane has developed a test protocol for wear by abrasion. Robin Crews also reported that there is concern with the assumptions of the pressures on curtains in a fire. We don't have real data on this, so we are considering contracting for some computer modeling.

There was a discussion of the funding of this testing.

9.3 Report on liaisons and news from other industry groups


9.3.1 PLASA

Ron Bonner reported that John Woodgate is willing to comment on the European harmonics issues for a fee.

Bonner also reported on what PLASA is trying to achieve in the UK with their technical standards office. Example of the kind of problems they are trying to address was the change-over of the single-conductor cable color coding scheme. The old color scheme was

Ground (Earth)	Neutra l	Line 1	Line 2	Line 3
green and yellow	black	red	yellow	blue
				

The new color scheme is

Ground (Earth)	Neutral	Line 1	Line 2	Line 3
green and yellow	blue	brown	black	grey
				

Obviously, confusing Line 3 or Line 2 with the Neutral could have serious consequences.

As a result of consultation with the affected parties, PLASA has come up with a practice for how to make this changeover, which will be published soon.

Bonner passed around a wallet card with the old and new color codes and recommendations for dealing with phase identification and use of single-conductor cables.

9.3.2 USITT news

None.

9.3.3 ASTC news

None.

9.3.4 VPLT news

None.

9.3.5 UL liaison

Vannice reported on UL 1573 and the change of the Standards Technical Panel project manager. The STP has asked that UL 1573 start the process of becoming an American National Standard. Terry said he suspects that UL has never been confronted with an STP demanding this before.

9.3.6 CANENA liaison

No report.

9.3.7 NFPA liaison

9.3.7.1 NFPA 70 (NEC)

Mitch Hefter reported that it was time to start putting together proposals for the next edition of the National Electrical Code.

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

Conner reported that churches are no longer exempt from the sprinkler requirements for similarly sized public assembly facilities.

Conner reported that there is pressure to remove the allowance of the use of theatre sound systems for emergency public address.

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

Larry Schoeneman reported that the technical committee has been working to minimize the number of false alarms caused by special effects, particularly fog. He has devised some language for fire alarm systems that will go into NFPA 1126 and NFPA 160, referencing NFPA 72's alarm delay feature.

Schoeneman reported that the SPE-AAA committee is thinking of working on an over-arching code for special effects. This could reference our fog standards. As the SPE-AAA committee reaches into areas in which the members have little expertise, they will need to reference standards by other organizations.

9.3.7.4 NFPA 80

Bill Conner reported on the draft of the chapter in NFPA 80 on fire safety curtains that has been circulated. It is largely prescriptive and construction-based. He mentioned that there is a bit of a race between the NFPA 80 committee and our own Rigging Working Group to be the first to get a standard done.

Ruling reported on an email he had received from Howard Hicks, the Chairman of the NFPA Fire Doors and Windows Technical Committee. If it accurately states, not only the current situation, but the likely outcome, it suggests that there could be ways for the standards to work together in the market for the benefit of all.

". . . it appears that there is considerable confusion within ESTA about the NFPA 80 committee intent with Fire Safety Curtains. We are not now or in the future writing a standard for Fire Safety Curtains to replace UBC 4-1. The specific scope of NFPA 80 is to address the installation, maintenance and testing of fire safety curtains. Testing in accordance with NFPA 80 applies to 1) after the installation of a curtain in a project; 2) those things needed to accept the installation; and 3) those things needed to assure proper operation in the future.

"Our committee hopes that ESTA will continue its' efforts to develop a standard to replace UBC 4-1 in its' entirety. We understand that this is a much greater task than that which is before our committee. ANSI's approval of our document is limited to our defined scope. We will not have competing documents with ESTA. However, because ESTA has a much more difficult task ahead of it and we have a limited scope, we are confident that we can provide a useable, valid document for enforcing officials that must approve the installation of fire safety curtains and that ESTA and NFPA 80 can both have useful documents."

Bill Conner also asked if he was to continue to represent ESTA at International Code Commission meetings. The consensus was that he should.

9.3.8 Other liaisons

No news.

9.4 Review of action items from last meeting not covered above

None. Done.

10 New Business — Possible new TSC member

The addition of David Lincecum of ETC to the TSC for his marketing expertise was discussed. Eddie Kramer moved that we recommend to the ESTA President that Lincecum be appointed to the TSC. The motion was seconded and then approved with a unanimous show of hands.

11 Other business

There was a discussion of changing the TSC meeting time to some time after the working groups have met. This led to a consideration of all the other meetings that would have to be moved, the people who would be affected, and so on. There was no consensus of what the solution should be, and the matter was dropped without any motions being offered.

12 Schedule for future meetings

The schedule had been distributed. The next TSC meeting is scheduled for Wednesday, 16 March 2005, from 13:00 to 17:00, at the Fairmont Royal York Hotel in Toronto, Ontario. The Summer meeting will be Friday, 29 July 2005, at the Dallas/Ft. Worth Airport Marriott South.

13 Adjournment

Paul Vincent asked for a motion to adjourn. The assembly responded with a call to adjourn by acclamation. Paul Vincent declared the meeting adjourned at 16:32.

TSC Membership and Contact Information as of 02 February 2005

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
Bill Groener	Color Kinetics Incorporated		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
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
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