

**Minutes**  
**Followspot Position Working Group Meeting**

Friday, 16 March 2007  
Hyatt Regency Phoenix  
Phoenix, AZ

**Chairman:** Jack Schmidt; Special Lighting Solutions, representing Ballantyne of Omaha, Inc.; P; MP

**Recording secretary:** Karl G. Ruling

**Members attending:**

Charles I. Swift; Graham, Swift & Company, LLC; P; G (joined at this meeting)  
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U  
Richard Logothetis; Lycian Stage Lighting; P; MP  
Fred Lindauer; Robert Juliat USA (Robert Juliat SA); P; MP  
Stephen Vanciel; I; U  
Richard J. Nix; Entertainment Structures Group (Steven Schaefer Associates); A; G  
Jerry Gorrell; Theatre Safety Programs; O; U (arrived at 21:20)

**1 Opening remarks**

Jack Schmidt called the meeting to order at 19:18.

**2 Patent and Anti-Trust statements**

**2.1 Patent statement**

The following statement was read aloud to the assembly by Jack Schmidt:

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

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

**2.2 Anti-trust statement**

The following statement was read aloud to the assembly by Jack Schmidt:

"The ESTA Board of Directors, the Technical Standards Committee, and the leadership of this working group will reject or nullify any actions that unlawfully restrain trade. Anyone who feels that such an action is being or has been taken is requested to bring that matter to the attention of the chair immediately. Anyone who feels that actions in restraint of trade have been taken and not properly annulled is requested to notify the TSC chair or 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."

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

### 3 Attendance & membership

#### 3.1 Introductions

Those present introduced themselves for the benefit of Charles Swift, who was the one new person at the meeting.

#### 3.2 Taking attendance

Karl G. Ruling noted the presence of members on a blue attendance sheet.

#### 3.3 Requirements for membership

Jack Schmidt reminded the assembly that membership in the working group is open to all who are affected by the work of the group. Voting members are required to attend meetings and to vote on letter ballots. Voting members and their alternates may not miss three consecutive meetings without a loss of voting status.

#### 3.4 Determination of quorum

Jack Schmidt announced that a quorum was present and business could be conducted.

#### 3.5 Processing of new membership requests

Charles I. Swift of Graham, Swift & Company LLC had applied as a principal in the general interest category. Eddie Kramer moved that his application be accepted. The motion was seconded and then approved with a show of hands.

The consensus body during the period of this meeting, including those not present, was:

Name	Company	Representing	Voting status	Int. cat.
Jack Schmidt	Special Lighting Solutions	Ballantyne of Omaha, Inc.	P	MP
Chip Purchase	Jones Hall	Foundation for Jones Hall	P	U
Charles I. Swift	Graham, Swift & Co., LLC	Graham, Swift & Co., LLC	P	G
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Richard Logothetis	Lycian Stage Lighting	Lycian Stage Lighting	P	MP
Fred Lindauer	Robert Juliat USA	Robert Juliat SA	P	MP
Steve Rust	Sachs Morgan Studio	Sachs Morgan Studio	P	G
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	I	U
Shawn Nolan	Entertainment Structures Group	Steven Schaefer Associates	P	G
Richard J. Nix	Entertainment Structures Group	Steven Schaefer Associates	A	G
William L. Maiman	William L. Maiman	William L. Maiman	I	G
		Total votes	10	
		Votes by interest category	0	CP
			3	MP
			0	DR
			3	U
			4	G

### 4 Approval of minutes from the 18 January 2007 meeting

Document FP/2007-9001, file name FPmin01-2007.pdf.

Eddie Kramer moved that the minutes of the 18 January 2007 meeting be accepted as written. The motion was seconded. The motion was approved with a show of hands.

## **5 Approval of agenda**

Eddie asked that there be a report from the TSC under New business and that it be handled soon, since he has another meeting to attend. Eddie Kramer moved that the agenda with this addition be accepted. The motion was seconded and then approved on a voice vote.

## **6 New Business**

### **6.1 Report from the TSC**

Eddie Kramer reported that the TSC was unhappy with the slow progress, and would like to see measurable progress soon.

Jack Schmidt defended the work of the group and said that there would be a document ready for public review soon, no later than LDI.

### **6.2 Co-Chair selection**

Jack Schmidt explained that Robin Crews has had to withdraw from the working group. There was discussion of who the working group might ask the TSC to appoint to replace him. Schmidt suggested that Charles Swift would be good, and the other members concurred. Charles Swift agreed to serve. The TSC will be asked if they will appoint Swift as the co-chair.

## **7 Old Business—Discussion of BSR E1.28 and the type matrix**

### **7.1** There was a discussion of the type matrix.

Jack Schmidt asked for a two-dimensional matrix with throw (short, medium, and long) on one dimension and a measure of brightness on the other dimension. The brightness dimension could be called bright/dim, professional/amateur, large connected load/small connected load, or some other set of words to describe lots of light as opposed to not so much light.

Richard Logothetis argued for a small booth for smaller venues and a big booth for bigger venues. The small booth would have less power supplied and the big booths should have more power supplied.

Small power would have 20 amp, 120 volt outlets. Big power would have 30 amp at 240 or 208 volt outlets. The descriptions of the power needed to supply followspots is binary. Some small booths might have big power.

Stephen Vanciel proposed an informative appendix to suggest how large a luminaire to specify for the venue. This would then support the big space/little space followspot position recommendations.

Big booths would accommodate followspots with large footprints. Small booths would accommodate followspots with small footprints.

### **7.2** The group went through the document, stopping at each highlighted clause, to address the questions that Richard Nix, the document's secretary, had for each of the highlighted sections.

#### **7.2.1** The 6.1 "the intent of this portion of the standard is" section was struck as unnecessary.

#### **7.2.2** It was decided that the convenience power sections go to an appendix but that booth lighting (position lighting), communications, and overcurrent protection should stay in the main body.

#### **7.2.3** 6.8 was completely highlighted. There was discussion of it:

6.8 Notes

Connectors and Outlets: By definition, under normal operating conditions, spotlight positions are dark. Consideration must be given as to location of power and communication outlets, to avoid hazards and operational restrictions from such things as headset cables and under foot power cables, etc.

Electrical planning note: When new conduit is being run to followspot positions, it is recommended that the size be increased by not less than two trade sizes to accommodate future needs. It is suggested that the more a robust locking connector (such as pin and sleeve or twist-lock) be used for followspot connections in all types of installations. In larger booths we often provide a Bus Duct to cover potential portable equipment loads, knowing that the 100 ampere 3 phase capacity will only be partially used.

It was decided that this section will be moved to the appendix.

**7.2.4** The language of 7.2 Heat Load was changed to: "The heat load of followspot booths should be calculated assuming that all the power provided to the followspot position will be turned into heat. To this, the heat produced by one operator per followspot should be added." The following formula was cut.

**7.2.5** Jerry Gorrell gave his report on ADA requirements. The Architectural Barriers Board has generated a revised set of guidelines. It's on their website, but for this to become official the Justice Department has to adopt it and publish it in the Federal Register. Ultimately someone will act, but it is not sure when and if this will happen. So, do we go with the current rules, or with the ones in line to be adopted? The new rules are less restrictive, but he recommends staying with the current ones. They have the force of law now.

**7.2.6** Equipment access was discussed. The draft document requires a 42" minimum width now, but this is often impractical. However, we don't want to leave the architects, who may have little experience with followspots, to decide what space is needed to move the equipment into position. This lead to an extended discussion of employee access and emergency egress. It was decided that referring to the Life Safety Code (NFPA 101) is the best way to define the emergency egress requirements.

**7.2.7** Richard Nix was charged with giving the working group a complete document 30 days before the next meeting.

## **8 Other Business**

It was noted that Richard Thompson has passed away. He helped start this project. Jack Schmidt said he was a friend and is missed.

## **9 Schedule of future meetings**

It was announced that the next meeting is scheduled for Thursday, 12 July 2007, 19:00 - 23:00, at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, Texas.

## **10 Changes of voting status**

The following voting members have missed the previous two consecutive meetings, and will be moved to observer status if this meeting is also missed.

Jack Schmidt, Special Lighting Solutions, representing Ballantyne of Omaha, Inc.  
Steve Rust; Sachs Morgan Studio  
Stephen Vanciel

Jack Schmidt and Stephen Vanciel were both present; Steve Rust was not. Jack Schmidt announced that Steve Rust was now moved to observer status because of his lack of regular attendance.

## **11 Adjournment**

Fred Lindauer moved that we adjourn. The motion was seconded. Hearing no objection, Jack Schmidt declared the meeting adjourned at 22:29.

**Membership and Contact Information as of 29 May 2007**

Name	Company	Representing	Vote status	Int. cat.
Jack Schmidt	Special Lighting Solutions	Ballantyne of Omaha, Inc.	P	MP
Chip Purchase	Jones Hall	Foundation for Jones Hall	P	U
Charles I. Swift	Graham, Swift & Company, LLC	Graham, Swift & Company, LLC	P	G
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Edward Paget	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
Thomas Paterson	Lux Populi SA de CV	Lux Populi SA de CV	O	G
Richard Logothetis	Lycian Stage Lighting	Lycian Stage Lighting	P	MP
Fred Lindauer	Robert Juliat USA	Robert Juliat SA	P	MP
Steve Rust	Sachs Morgan Studio	Sachs Morgan Studio	O	G
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	I	U
Shawn Nolan	Entertainment Structures Group	Steven Schaefer Associates	P	G
Richard J. Nix	Entertainment Structures Group	Steven Schaefer Associates	A	G
John Tedesco	The Phoebus Company, Inc.	The Phoebus Company, Inc.	O	MP
Curtis Kasefang	Theatre Consultants Collaborative, LLC	Theatre Consultants Collaborative, LLC	O	CP
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	O	U
William L. Maiman	William L. Maiman	William L. Maiman	I	G

**Key to codes:**

P	principal	MP	mass-market producer
A	alternate	CP	custom-market producer
I	individual	DR	dealer or rental company
O	observer	U	user
		G	general interest