

**Minutes**  
**Floors Working Group**  
Wednesday, 14 November 2007  
Rosen Plaza Hotel  
Orlando, Florida

**Chairman:** Tim Hansen; Oasis Stage Werks; P; MP

**Recording secretary:** Karl G. Ruling

**Members attending:** Bob Dagger; American Harlequin Corp. (Harlequin Corporation); P; MP  
Ron Bonner; PLASA; P; G  
Robert R. Scales; ; I; U  
Tracey Cosgrove; Rosco Laboratories; A; MP  
Caroline Rault; Rosco Laboratories; P; MP (joined at this meeting)  
David H. Rosenberg; Theatre Projects Consultants; P; U  
Jerry Gorrell; Theatre Safety Programs; P; U

**Visitors:** None

**1 Opening Remarks**

Tim Hansen called the meeting to order at 08:06 and welcomed all present to Orlando.

Tim reminded the group about the LDI session, "Sliding Along: Measuring the Slipperiness of Performance Floors," which is scheduled for Friday, 16 November, 1:30 p.m. to 3:00 p.m. on the trade show floor. People should meet at the ESTA booth to start the testing tour.

**2 Attendance and Membership**

**2.1 Introduction of those present**

A fluorescent green attendance sign-in sheet was circulated while those present introduced themselves.

**2.2 Call for quorum**

Tim Hansen announce that a quorum was present and that business could be conducted.

**2.3 Requirements for membership**

Tim Hansen reminded those present that working group membership is open to all parties who are affected by the work of the group; membership in ESTA is not a requirement. Voting members are required to attend meetings. Any principal member and alternate that both miss three consecutive meetings will have their membership status changed to observer. This action will be taken as the last item of business at the third missed meeting and will be recorded in the minutes of that meeting.

**2.4 Processing of new membership requests**

Caroline Rault of Rosco applied as a principal in the mass-market producer category.

Tracey Cosgrove announced that she is leaving the working group at the end of the meeting, and that Caroline Rault is her replacement. Cosgrove is moving from flooring products into a different management position at Rosco.

Tracey Cosgrove moved that Caroline Rault's application be accepted. The motion was seconded and then approved with a unanimous show of hands. For the period of this meeting, Rault was Rosco's voting principal and Cosgrove the alternate.

Name	Representing	Voting status	Int. cat.
Bob Dagger	Harlequin Corporation	P	MP
Patricia Basileo	Harlequin Corporation	A	MP
Tim Hansen	Oasis Stage Werks	P	MP
Gary Justesen	Oasis Stage Werks	A	MP
Ron Bonner	PLASA	P	G
Robert R. Scales	Robert R. Scales	I	U
Caroline Rault	Rosco Laboratories	P	MP
Tracey Cosgrove	Rosco Laboratories	A	MP
David H. Rosenberg	Theatre Projects Consultants	P	U
Jerry Gorrell	Theatre Safety Programs	P	U
Total votes possible		7	
Votes by interest category		0	CP
		3	MP
		0	DR
		3	U
		1	G

### 3 Approval of the minutes from the 13 July 2007 meeting

See Floors/2007-8004, file name FLmin07-2007.pdf

Ron Bonner moved that the draft minutes be approved as written. The motion was seconded and then accepted with a show of hands.

### 4 ESTA Declarations

#### 4.1 Anti-trust statement

The following statement was read aloud to the assembly by Tim Hansen

"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."

Karl Ruling, the Technical Standards Manager, held up some of the easy-to-read pamphlets. Caroline Rault requested one, and he gave it to her.

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

#### 4.2 Call for Patents

The following statement was read aloud to the assembly by Tim Hansen

"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.

## **5 Approval of Agenda**

Jerry Gorrell moved that the agenda be approved. The motion was seconded and then accepted with a show of hands.

## **6 Old Business**

### **6.1 ANSI E1.26-2006 Status**

Karl Ruling reported that eight copies were sold last year: three through ANSI and five through The ESTA Foundation.

### **6.2 BSR E1.34 floor slipperiness project**

Bob Scales showed his device, which consisted of True Meter (a rolling measuring device that is pushed ahead of the user) and a Berkley electronic fish scale. The scale holds a reading if the button pushed or records it automatically when the reading stabilizes.

There was a discussion of the possible artifacts introduced by the pulley needed to change the direction of the tension line. It was decided that it shouldn't be an issue if the pulley is in the line with about the same angle when the sled is weighed.

Bob Dagger showed a commercial floor friction measuring device that is a sled that runs down an incline plane and then slows to a stop. The distance that it takes to stop is a measure of the coefficient of friction.

There was a discussion of some details of the draft standard. The following points were clarified:

(a) The speed needs to match normal walking pace. This is 3 feet a second, according to Bob Scales. Jerry Gorrell suggested 3 miles an hour, which is 4.4 feet a second. Ruling said he walks at a rate of four kilometers an hour, which is 1000 meters in 900 seconds, or 1.1 meters a second. So a rate of a meter a second should work as a reasonable compromise.

(b) If multiple readings are taken, how close should they be to each other in space? The consensus was that samples should be no closer than one meter apart.

(c) The standard needs to be written to generically describe the machine that consists of a wheeled stick with a meter on it, being pushed ahead of the user, and dragging the sled.

(d) The procedure for weighing the sled needs to be described, and the procedure needs to include the pulley and the walking device. The weight of the sled needs to be measured with the line passing over the pulley at approximately the same angle as it passes over it when dragging the sled.

(e) A drawing of the device and a person using it might be helpful.

(f) A minimum of three tests need to be required, but more should be permissible.

(g) The thickness specification for the sled needs to be removed. It's not important. It is important that the sled be rigid and able to support its weight and be dragged across the floor without obvious bending of the platform. The feet must stay perpendicular.

Karl Ruling agreed to work on a revision of the draft standard, taking into consideration the above points.

**7 New Business**

None

**8 Other Business**

None.

**9 Schedule for Future Meetings**

It was announced that the next meeting is scheduled for Friday, 25 January 2008, 13:00 to 17:00, at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, Texas. It was agreed that Karl Ruling shall have a revised draft standard ready for that meeting, or we'll cancel the meeting. Then the next meeting will be held in conjunction with the USITT Conference and Stage Expo from 8:00 to noon on Saturday, March 22, at the Hilton Americas Houston in Houston, Texas.

There was a brief discussion of the Thursday, July 17 meeting in New York City. Meeting in New York is not an expense issue for most of the working group members.

**10 Changes to observer status due to lack of attendance**

The following voting member has missed the last two meetings and will have failed to meet the minimum attendance requirement for voters if this meeting is also missed:

None

**11 Adjournment**

Jerry Gorrell moved that the meeting adjourn. The motion was seconded and then approved with a unanimous show of hands. Tim Hansen declared the meeting adjourned at 09:41.

**Working Group Membership and Contact Information as of 30 November 2007**

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Keith Sklar	Actors' Equity Association	Actors' Equity Association	O	G
Ken Greenwood	Actors' Equity Association	Actors' Equity Association	O	G
Tim Williamson	Northern Alberta Jubilee Auditorium	Alberta Government	O	U
Julie Rogers	City of Phoenix Civic Plaza	City of Phoenix	O	G
Fred Allen	Fred Allen & Associates	Fred Allen & Associates	O	U
Bob Dagger	American Harlequin Corp.	Harlequin Corporation	P	MP
Patricia Basileo	American Harlequin Corp.	Harlequin Corporation	A	MP
Christopher Purpura	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
Nevin Kleege	Kleege Industries	Kleege Industries	O	G
Seth Popper	League of American Theatres and Producers, Inc.	League of American Theatres and Producers, Inc.	O	G
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	MP
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	A	MP
Ron Bonner	PLASA	PLASA	P	G
Robert R. Scales	Robert R. Scales	Robert R. Scales	I	U
Caroline Rault	Rosco Laboratories	Rosco Laboratories	P	MP
Steve Rust	Sachs Morgan Studio	Sachs Morgan Studio	O	G
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
David Nash	StoweNash Associates LLC	StoweNash Associates LLC	O	U
David H. Rosenburg	Theatre Projects Consultants, Inc.	Theatre Projects Consultants	P	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Pete Happe	Walt Disney Imagineering	Walt Disney Company	O	U
Mark Elliott	Walt Disney Company	Walt Disney Company	O	U
Steven Wiese	Wenger Corp.	Wenger Corp.	O	MP

**Key to codes**

- O Observer, non-voting
- P Principal voting on behalf of an organization or company
- A Alternate voting member representing an organization or company
- I Individual voting member representing only himself or herself
- G General interest
- U User of floors or flooring products
- MP Mass-market producer
- CP Custom-market producer
- DR Dealer or rental company