

Minutes
Floors Working Group
Saturday, 19 March 2005
Fairmont Royal York Hotel
Toronto, ON, Canada

Presiding chairman: Tim Hansen; Oasis Stage Werks; P; MP

Recording secretary: Karl G. Ruling; ESTA

Members attending: Keith Sklar; Actors' Equity Association; O; G (by phone)
Bob Dagger; American Harlequin Corp. (Harlequin Corporation); P; MP
Ron Bonner; PLASA; P; G
Robert R. Scales; I; U (joined at this meeting)
Tracey Cosgrove; Rosco Laboratories; P; MP
Steve Rust; Sachs Morgan Studio; P; G (arrived at 9:00)
Jerry Gorrell; Theatre Safety Programs; P; U

Visitors: None

1 Opening Remarks

Tim Hansen called the meeting to order at 08:02.

2 Attendance and Membership

2.1 Introduction of those present

Those present introduced themselves while a red attendance sign-in sheet was circulated.

2.2 Call for quorum

Tim Hansen announced that a quorum was present so business could be conducted.

2.3 Requirements for membership

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

"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 New membership requests

Bob Scales applied as an individual member in the user interest category.

Jerry Gorrell moved that Scales's application be accepted. The motion was seconded. The motion was approved by a unanimous show of hands.

The complete consensus body during the period of this meeting was:

Name	Company	Representing	Voting status	Interest cat.
Bob Dagger	American Harlequin Corp.	Harlequin Corporation	P	MP
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
Tracey Cosgrove	Rosco Laboratories	Rosco Laboratories	P	MP
Steve Rust	Sachs Morgan Studio	Sachs Morgan Studio	P	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	U
		Total votes	9	
		Votes by interest category	3	MP
			0	CP
			0	DR
			3	U
			3	G

4 Approval of the minutes from the previous meeting

Jerry Gorrell moved that the draft minutes of the October 2004 meeting be approved as written. The motion was seconded. The motion was approved by a unanimous show of hands. Steve Rust was not yet present.

5 ESTA Declarations

5.1 Anti-trust statement

The following was read aloud to the assembly by Tim Hansen, the chairman:

"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 held up a copy of the pamphlet. No restraint of trade issues were brought to the attention of the assembly.

5.2 Call for Patents

The following was read aloud to the assembly by Tim Hansen, the chairman:

"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 issues were brought to the attention of the group.

6 Approval of Agenda

Ron Bonner moved that the draft agenda be approved as written. The motion was seconded. The motion was approved by a unanimous show of hands. Steve Rust was not yet present.

7 Old Business

7.1 Report on TSC BSR E1.26 public review vote

Tim Hansen reported that the TSC voted to reject the public review motion. Mike Wood had found inconsistencies in the language that made the document very hard to understand, and therefore difficult to review intelligently. Wood has an engineering degree, so his difficulty understanding the document is not attributable to his lack of technical expertise. The TSC found the document so difficult to understand that it should not go to public review now. Mike Wood volunteered to work with Tim Hansen on editing the draft BSR E1.26 standard so it is easier to understand and can be reasonably reviewed by members of the affected public.

Jerry Gorrell moved that when Tim Hansen and Mike Wood have finished the edits, that it be sent to the working group with a letter ballot asking if the document is acceptable for public review and asking that it be forwarded to the TSC for approval of a public review. The motion was seconded. The motion was approved with a unanimous show of hands. Steve Rust was not yet present.

7.2 Discussion and possible action on Bob Dagger's BSR E1.26 letter ballot comments

Bob Dagger's comments were:

- i. I believe the test is unwieldy for on-site use and demands mathematical skill which may be beyond the capacity of the operatives.
- ii. We have not defined if it applies to raked floors.
- iii. It relies heavily on DIN 18032, which was developed for sports floors; we assume it applies to a different physical activity.

There was a discussion of these comments. Bob Dagger was still concerned that the device is difficult to use, wasn't really designed for our concerns, and the math is difficult for many people. However, he said that he was content to let this document go forward, in hopes that the use of this procedure may stimulate the development of a simpler process in the future.

Dagger was also concerned about the source of the calibrated spring, which is a German company. Tim Hansen pointed out that the properties of the spring are listed in the document; the German source is listed only as a convenience. It was decided that "should" shall be removed and replaced with "may" in the reference to the German source for springs so it is clear that buying the springs from that company is not required.

There was a discussion of whether the test is applicable to raked floors. Karl Ruling suggested that the group either say the document is for horizontal floors or for floors with moderate rakes.

Jerry Gorrell moved that the E1.26 standard shall state that is only applicable to flat, level floors. The motion was seconded. The motion was approved by a unanimous show of hands and one nodding head.

It was agreed that Tim Hansen will develop language to define "flat and level" and will circulate it to the working group for approval before the document is sent to them for the public review vote.

7.3 Discussion of David Nash's letter

The letter from David Nash also was discussed. Nash had pointed out several parts of the DIN 18032 that are not applicable to performance floors, but the draft E1.26 standard does not reference those tests from DIN 18032. The comment that Nash made that is applicable to the current draft standard is the comment suggesting that two drop heights be used. Tim Hansen said that in his discussions with Mike Wood, Wood had suggested that this would not make much difference. It would also complicate the using the device. Nash, in his experiments, also calculated the energy return as a percentage. The group agreed that this also would further complicate the test. Finally, Mike Foley's book on dance floors has quite a bit of data on dance floors using the DIN test, so Nash's comment that

there is little empirical data does not seem to match the working group's assessment of the amount of available data.

7.4 Research on medical problems

Bob Scales pointed out some research on the medical problems of performing artists. A journal Medical Problems of Performing Artists on this topic is published quarterly. Volume 7, Number 3, September 1992 issue has an article entitled "The Influence of Dance Training and Foot Position on Landing Mechanics," which is of particular interest to our work with floor. The website for the publisher is <http://www.sciandmed.com>.

8 New Business

Affirmation of new working group co-chairman

Bob Dagger moved that the selection of Jerry Gorrell as working group co-chair be ratified. The motion was seconded. The motion was approved on a voice vote. Steve Rust was not yet present.

9 Other Business

There was a discussion of the floors session at the USITT Conference scheduled for later this morning, Saturday, 19 March 2005. Bob Scales said he was asked to be on the session. He plans to talk about a seamless floor he made for the Bagley Wright Theatre used by Seattle Rep.

10 Schedule for Future Meetings

It was announced that the next meeting would be at the Dallas/Fort Worth Airport Marriott South in Ft. Worth, TX, Friday, 29 July 2005, 13:00 – 17:00.

In discussion it was noted that if the motion to send the draft standard to public review passes, there may be no work to do and the meeting will be cancelled.

11 Changes to observer status due to lack of attendance

None had missed the previous two meetings; none were subject to a status change at this time.

12 Adjournment

Jerry Gorrell moved that the meeting adjourn. The motion was seconded. The motion was approved by a show of hands. Steve Rust was present by this time and voted with the rest of the assembly. Tim Hansen declared the meeting adjourned at 09:10.

Floors Working Group Members and Contact Information as of 31 March 2005

Name	Company	Representing	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
Fred Allen	Fred Allen & Associates	Fred Allen & Associates	O	U
Bob Dagger	American Harlequin Corp.	Harlequin Corporation	P	MP
Edward Paget	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
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
Tracey Cosgrove	Rosco Laboratories	Rosco Laboratories	P	MP
Steve Rust	Sachs Morgan Studio	Sachs Morgan Studio	P	G
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
David Nash	StoweNash Associates LLC	StoweNash Associates LLC	O	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G
Pete Happe	Walt Disney Imagineering	Walt Disney Company	P	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