

Minutes Fog and Smoke Working Group

Friday, 31 March 2006
Louisville Marriott Downtown
Louisville, Kentucky

Presiding chairman: Larry Schoeneman; Designlab Chicago, Inc.; P; DR

Recording secretary: Karl G. Ruling; ESTA

Members attending: M. Brad Dittmer; Downhome Productions; P; U
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Timothy Wade; IATSE Local 600; P; U
Greg Meeh; Jauchem & Meeh, Inc.; P; DR
Marnie Styles; Le Maitre Special Effects; A; MP (Joined at this meeting.)
Nathan Kahn; Look Solutions USA Ltd.; P; MP (Change of voting status at this meeting.)
Martin Michaud; MDG Fog Generators Ltd.; P; MP
Mike Wood; Mike Wood Consulting LLC; P; G
Ron Bonner; PLASA; P; G
Eric Tishman; Rosco Laboratories; P; MP

Visitors: None

1 Opening remarks

Larry Schoeneman called the meeting to order at 08:33.

2 Attendance and membership

2.1 Introductions of those present

Those present introduced themselves to the assembly.

2.2 Determination of quorum

Schoeneman announced that a quorum was present.

2.3 Recognition of alternate voting members

At this time in the meeting, there were no alternate voting members to recognize, but Marnie Styles was present to be voted in as an alternate for Adrian Segeren.

2.4 Requirements for membership

Schoeneman reminded those present that working group membership is open to all who are affected by the work of the group. At this time, people who would represent dealer/rental companies are particularly encouraged to apply for membership.

Voting members must vote on letter ballots and attend meetings. A member's voting status will be changed to observer if he and his alternate miss three consecutive letter ballots or three consecutive meetings. Voting status change due to failure to vote will be done at the conclusion of the ballot period. Voting status change due to lack of attendance will be done at the beginning of the third meeting missed. Reinstatement of voting status may be requested at the next meeting attended.

2.5 Processing of new membership applications

Marnie Styles had applied as an alternate to Adrian Segeren of Le Maitre Special Effects. Mike Wood moved that her application be accepted. The motion was seconded and then approved by a unanimous show of hands.

Nathan Kahn, at this time an observer, asked to be a principal voting member for Look Solutions USA Ltd. Mike Wood moved that his application be accepted. The motion was seconded and then approved by a unanimous voice vote.

2.6 Processing of changes to observer status if this meeting is missed

The following voting member has missed at least the last two consecutive meetings and will be moved to observer status if this meeting is also missed:

Greg Meeh and Patrick Boyd; Jauchem & Meeh, Inc.

Greg Meeh was present, so there was no change in voting status.

The official consensus body during this meeting was:

Name	Company	Representing	Voting status	Int. cat.
Larry Schoeneman	Designlab Chicago, Inc.	Designlab Chicago, Inc.	P	DR
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Timothy Wade	IATSE Local 600	IATSE Local 600	P	U
Greg Meeh	Jauchem & Meeh, Inc.	Jauchem & Meeh, Inc.	P	DR
Patrick Boyd	Jauchem & Meeh, Inc.	Jauchem & Meeh, Inc.	A	DR
Adrian Segeren	Le Maitre Special Effects	Le Maitre Special Effects	P	MP
Don Phillips	Le Maitre Special Effects	Le Maitre Special Effects	A	MP
Marnie Styles	Le Maitre Special Effects	Le Maitre Special Effects	A	MP
Nathan Kahn	Look Solutions USA Ltd.	Look Solutions USA Ltd.	P	MP
Martin Michaud	MDG Fog Generators Ltd.	MDG Fog Generators Ltd.	P	MP
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P	G
Ron Bonner	PLASA	PLASA	P	G
Eric Tishman	Rosco Laboratories	Rosco Laboratories	P	MP
		Total votes possible	11	
		Votes by interest category	4	MP
			0	CP
			2	DR
			3	U
			2	G

3 Approval of minutes from the previous meeting

Mike Wood moved that the draft minutes (F&S/2006-3003) of the 21 January 2006 meeting be approved as written. The motion was seconded. The motion was approved with a unanimous show of hands.

4 Approval of agenda

Mike Wood moved that the draft agenda be approved as written. The motion was seconded. The motion was approved with a unanimous show of hands.

5 Reading of the call for patents

Larry Schoeneman read the following statement aloud to the assembly:

"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 patent or other protected intellectual property issues were brought to the attention of the assembly.

6 Reading of the anti-trust statement

Larry Schoeneman read the following statement aloud to the assembly:

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

7 Task group and committee reports and business

7.1 TSC

Larry Schoeneman reported that there is a "collective sigh" waiting to be expelled for ACN. It should soon be done, and it has been an immense task. Its publication will, in a sense, validate the TSP.

Schoeneman reported on the project to provide subscriptions for standards. This is part of the larger interesting problem of how to reach audiences outside of our industry. He finds that people are becoming more aware of codes and are looking for guidance documents. He is running into more cases where people are saying "What's the code that applies to this installation?"

7.2 BSR E1.23, generic fog effect guidance

Ruling reported that BSR E1.23 was accepted by the working group (See the report of working group's letter ballot, F&S/2006-3004) and that the TSC had approved it. It now needs to be accepted by the ESTA Board and, if it passes the Board, submitted to ANSI.

7.3 BSR E1.29, fog equipment product safety standard

There was a discussion of the draft document. And how to proceed.

Larry Schoeneman assigned people to tasks:

- Greg Meeh to address dry ice machines and their concerns in the draft standard.
- Le Maitre and MDG to address glycol and liquid carbon dioxide effects.
- MDG to also address mineral oil safety concerns.
- Rosco to address safety concerns with glycol and remote fluid systems.
- Larry Schoeneman gave himself the task of evaluating the draft document to address liquid nitrogen systems.
- Karl Ruling was assigned the job of making sure the document is compatible with NFPA 55: Standard for the Storage, Use, and Handling of Compressed Gases and Cryogenic Fluids in Portable and Stationary Containers, Cylinders, and Tanks.

There was a discussion of possibly writing an equipment safety standard for monitoring equipment. It was decided that a standard for monitoring equipment would be a separate document, if we write any such document at all.

Larry Schoeneman asked that the documents developed by the task groups be forwarded to Mike Wood, Larry Schoeneman, and Karl Ruling.

7.4 Reaffirmation of ANSI E1.14-2001

Ruling reported that the public review for the reaffirmation of ANSI E1.14-2001 closes at the end of the day on 11 April 2006. So far the only comments received had been from Murray Gellatly, who, while offering suggestions on what he would like to see changed, also stated that he did not want to formally submit comments. Ruling said his intention was to accept Gellatly's comments as public review comments because there is no other way to consider his comments.

8 Old Business

Ruling reported that he had discussed the issue of replacing Bill Hektner with another USITT representative with Jerry Gorrell. Gorrell said that USITT will submit another representative.

9 New business

Ruling reported that the Technical Standards Program has a new version of the P&P, a version 6. This one allows for a 45-day public review, thus shaving a day and two weeks off a review cycle.

10 Other business

Schoeneman reported on Clark County's new fire code, which affects cryogenic effects. The inspectors in Clark County had been enforcing the code before it was published, which made dealing with them pretty difficult, but now it is published. It is a rather restrictive code in regard to the siting of cryogen storage tanks.

11 Liaison Reports

11.1 PLASA

Ron Bonner reported on some RoHS issues. No RoHS substances are likely to be in fog, but they may be in fog generating equipment.

Bonner reported that people are interpreting much entertainment control equipment to be in the WEEE class of "monitoring and control equipment," and therefore exempt from the RoHS rules. However, it must be entirely control and monitoring equipment and not actually produce anything. The control circuitry that is part of something that would be covered, such as the control circuitry inside an automated luminaire, would have to be RoHS compliant.

Bonner also clarified what "placed on the market" means. A product is "placed on the market" when an item is sold or given to some legal entity inside the EU. Note that this action applies to individual items. A manufacturer may come out with a new fog machine line before July 1, but only those individual machines that are given or sold to someone inside the EU before July 1 will be exempt. Machines arriving on or after July 1 would have to comply.

Bonner offered to help companies with their RoHS concerns, stating he has "tonnes of guidance."

11.2 VPLT — Von Hofen or Steffens

Not present. No report.

11.3 NFPA

Nothing of note recently, reported Larry Schoeneman.

11.4 Spamalot

Greg Meeh reported on an issue with the stored CO₂ dewars in the trap room and elevator room for *Spamalot* on Broadway. Carbon dioxide monitoring was required, with alarms set to trip at 0.2%, which is lower than the OSHA regulations. The alarms go off frequently and make a lot of noise, and are in general a nuisance without helping worker safety. This suggests a possible future project on CO₂ or oxygen monitoring systems for theatrical applications.

12 Schedule for future meetings

It was announced that the next meeting is scheduled for Saturday, 15 July 2006, 19:00 to 23:00, at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, Texas.

13 Adjournment

Martin Michaud moved that the meeting adjourn. The motion was seconded and approved on a voice vote. Larry Schoeneman declared the meeting adjourned at 09:35.

Working Group Membership and Contact Information as of 10 May 2006

Name	Company	Representing (This is the primary sort field.)	Vote stat.	Int. cat.
Patrick O'Rourke	Big Apple Lights	Big Apple Lights	O	DR
F. Lee Iwanski	Big Apple Lights	Big Apple Lights	O	DR
Gary Crawford	C I T C	C I T C	O	MP
Julie Rogers	City of Phoenix Civic Plaza	City of Phoenix	O	G
Gary Fails	City Theatrical, Inc.	City Theatrical, Inc.	O	MP
Larry Schoeneman	Designlab Chicago, Inc.	Designlab Chicago, Inc.	P	DR
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
Norman Wright	Group One Ltd.	Group One	O	DR
Lowell Fowler	High End Systems Inc.	High End Systems Inc.	O	MP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Timothy Wade	IATSE Local 600	IATSE Local 600	P	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
Jack Suesse	J.R. Clancy, Inc.	J.R. Clancy, Inc.	O	G
Greg Meeh	Jauchem & Meeh, Inc.	Jauchem & Meeh, Inc.	P	DR
Patrick Boyd	Jauchem & Meeh, Inc.	Jauchem & Meeh, Inc.	A	DR
Adrian Segeren	Le Maitre Special Effects	Le Maitre Special Effects	P	MP
Don Phillips	Le Maitre Special Effects	Le Maitre Special Effects	A	MP
Marnie Styles	Le Maitre Special Effects	Le Maitre Special Effects	A	MP
Nathan Kahn	Look Solutions USA Ltd.	Look Solutions USA Ltd.	P	MP
Martin Michaud	MDG Fog Generators Ltd.	MDG Fog Generators Ltd.	P	MP
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P	G
Monona Rossol	Arts, Crafts & Theater Safety	Monona Rossol	O	G
Ron Bonner	PLASA	PLASA	P	G
Douglas Franz	QVC Network	QVC Network	O	U
Jim Gill	Reel EFX, Inc.	Reel EFX	O	MP
Eric Tishman	Rosco Laboratories	Rosco Laboratories	P	MP
Heinz Siller	RST Prsentations-systeme	RST Prsentationssysteme	O	G
Beverly Huggins	SFX Design, Inc.	SFX Design, Inc.	O	MP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	U
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	O	U
Reuben Goldberg	Technic Services	Technic Services	O	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	O	G
Thomas Costello	TJC and Associates	TJC and Associates	O	G
Colin Waters	TMB	TMB	O	G
Thomas V. Korder	Krannert Center for the Performing Arts	University of Illinois	O	U
Peggy Lee Martindale	University of Texas, Austin	University of Texas, Austin	O	G
Florian von Hofen	VPLT	VPLT	O	G
Eckart Steffens	SOUNDLIGHT	VPLT	O	G
Gunther Schaidt	Safex Chemie	VPLT	O	G
Mark Elliott	Walt Disney Company	Walt Disney Company	O	U

Key to codes:

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