

**Minutes**  
**Fog and Smoke Working Group**  
Friday, 18 July 2008  
Pace University  
New York, NY

**Chairman:** Larry Schoeneman; Designlab Chicago, Inc.; P; DR

**Recording secretary:** Karl G. Ruling; ESTA

**Members attending:** Wendy Holt; Alliance of Motion Picture and Television Producers; P; U  
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U  
Greg Meeh; Jauchem & Meeh, Inc.; P; DR  
Martin Michaud; MDG Fog Generators Ltd.; P; MP  
Monona Rossol; Arts, Crafts & Theater Safety, representing herself; O; G  
Ron Bonner; PLASA; P; G

**Visitors:** None

**1 Opening remarks**

Larry Schoeneman called the meeting to order at 10:02.

**2 Attendance and membership**

**2.1 Introductions of those present**

Those present introduced themselves.

**2.2 Determination of quorum**

Larry Schoeneman noted that a quorum was present, so business could be conducted, but the six present were one short of the number required to pass a motion requiring a supermajority.

**2.3 Recognition of alternate voting members**

There were none to recognize.

**2.4 Requirements for membership**

Schoeneman reminded the assembly that working group membership is open to all who are affected by the work of the group. 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**

There were none.

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

The following voting members have 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.

Meeh was present, so there was no status change.

The complete voting body during the period of this meeting, including those voters not present, was:

Name	Company	Representing (This is the primary sort field.)	Voting status	Int. cat.
Wendy Holt	AMPTP	Alliance of Motion Picture and Television Producers	P	U
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
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 (Canada)	Le Maitre Special Effects	A	MP
Ulrich Borup Hansen	Martin Professional A/S	Martin Professional A/S	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
Florian von Hofen	VPLT	VPLT	P	G
		Total possible votes	12	
		Votes by interest category	0	CP
			4	MP
			2	DR
			3	U
			3	G

**3 Approval of minutes from the previous meeting, the meeting of 21 March 2008**

See document F&S/2008-3003, file name FSmin03-2008.pdf.

Eddie Kramer moved that the minutes be accepted as written. The motion was seconded and then approved with a unanimous show of hands.

**4 Approval of agenda**

Eddie Kramer moved that the draft agenda be accepted. The motion was seconded and then approved with a unanimous show of hands.

**5 Reading of the call for patents**

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 protected intellectual property was brought to the attention of the assembly.

**6 Reading of the anti-trust statement**

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 one of the easy-to-read pamphlets. No restraint of trade issues were brought to the attention of the assembly.

## **7 Old Business**

### **7.1 BSR E1.5 - 200x (a revision of ANSI E1.5 - 2003)**

Addressing the objections to reaffirming the existing standard. See FS\_E1-5LtrBlItTtl-Fnl.pdf and E1-5\_2003.pdf.

There was a discussion of the CAS numbers needed to describe the dipropylene glycol isomers and mixtures used in fog fluids. Eddie Kramer asked that a definition of CAS be added to the standard. A definition was drafted and added, making an r9 version of the draft standard.

Greg Meeh moved that it be recorded in the minutes that the changes made to E1.5 address the concerns expressed in the reasons for the No votes on the reaffirmation letter ballot and that standard be revised to incorporate the changes. The motion was seconded and then approved with a unanimous show of hands. (This effectively started a project to revise ANSI E1.5-2003.)

Eddie Kramer moved that the revised E1.5 standard be offered for public review. The motion was seconded. The question will be decided by letter ballot.

### **7.2 BSR E1.29 - 200x, fog equipment product safety standard**

Addressing the objections to accepting the draft standard. See FS\_E1-29LtrBlItTotal-Fnl.pdf and E1-29\_2007-3004r4.pdf.

The r4 version of the draft standard was discussed. Liquid CO<sub>2</sub> was added as a fluid, and a clause was added to note that non-water fog machines that hold the fog fluid at an elevated temperature for an extended length of time must not degrade the fog fluid in the process. The revised document became the r5 version. The consensus of the working group members present was that the changes addressed the concerns expressed in the No votes on the acceptance letter ballot.

Eddie Kramer moved that the revised E1.29 draft standard be offered for public review. The motion was seconded. The question will be decided by letter ballot.

## **8 New business**

Martin Michaud moved that we start the revision process on E1.23, Entertainment Technology - Design and Execution of Theatrical Fog Effects. The motion was seconded and then approved with a unanimous show of hands.

Greg Meeh moved that the dipropylene and mineral oil definitions from E1.29 be put into E1.23, and that the modified document then be offered for public review. The motion was seconded. The question will be decided by letter ballot.

## **9 Other business**

Larry Schoeneman reported on his discussions of fog technology and demonstrations of LN2 fog with opera companies. He remarked that they are ignorant about the technology, but that they are serious, have legitimate concerns, and are willing to learn. He was surprised by the AGMA representatives in LA, who, while standing on stage surrounded by stagehands, said that they are concerned about the health of actors and singers only. That said, they are open to the use of fog effects if they can be shown that they are not hazardous to performers.

## **10 Liaison Reports**

### **10.1 PLASA**

Ron Bonner said he had nothing to report.

### **10.2 NFPA**

There was a discussion of a possible presentation to the NFPA special effects committee at the meeting next year in Chicago and that committee's interest in covering all special effects.

### **10.3 VPLT**

No report.

## **11 Schedule for future meetings**

Schoeneman announced that the next meeting is scheduled to be on Saturday, 25 October 2008, from 09:00 to 11:00 in the morning, at Harrah's Las Vegas.

## **12 Adjournment**

Martin Michaud moved that the meeting adjourn. The motion was seconded and then approved with a show of hands. Larry Schoeneman declared the meeting adjourned at 11:46.

## Working Group Membership and Contact Information as of 6 August 2008

Name	Company	Representing	Voting status	Int. cat.
Wendy Holt	AMPTP	Alliance of Motion Picture and Television Producers	P	U
Gary Crawford	C I T C	C I T C	O	MP
Julie Rogers	City of Phoenix Civic Plaza	City of Phoenix	O	G
Stephanie Kelly	Phoenix Stages/Convention Center	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
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	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 (Canada)	Le Maitre Special Effects	A	MP
Nathan Kahn	Look Solutions USA Ltd.	Look Solutions USA Ltd.	O	MP
Ulrich Borup Hansen	Martin Professional A/S	Martin Professional A/S	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
Eric Tishman	Rosco Laboratories	Rosco Laboratories	P	MP
Marty Clausen	SHAPE (Safety & Health in Arts Production Entertainment)	SHAPE (Safety & Health in Arts Production Entertainment)	O	G
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
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
Jim Cooper	Palomar College	USITT	O	U
Florian von Hofen	VPLT	VPLT	P	G
Mark Elliott	Walt Disney Company	Walt Disney Company	O	U

**Key to codes:**

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