

**Minutes**  
**Fog and Smoke Working Group**  
Friday, 20 March 2015  
Hilton Netherland Plaza  
Cincinnati, OH  
and by WebEx

**Presiding chairperson:**

Larry Schoeneman; DesignLab Chicago, Inc.; P; DR

**Recording secretaries:**

Erin Grabe; PLASA NA; exf; G  
Karl G. Ruling; PLASA NA; exf; G

**Members in attendance:**

Matthew Antonucci; Contract Services Administration Trust Fund; P; U  
Margaret Buckalew, MPH; Environmental Resource Management (ERM); O; G  
Justin Cicerone; Martin Professional; Harman International Industries; O; MP  
Matthew R. DeLong; Rosco Laboratories; P; MP  
Brad Dittmer; Stage Labor of the Ozarks; P; U  
Mark Elliott; Walt Disney Company; P; U  
Paul Jordan; NBC Universal; P; U  
Marnie Styles; Ultratec Special Effects Inc.; P; MP  
Stephen Vanciel; IATSE Local 631; U  
Mike Wood; Mike Wood Consulting LLC; P; G

**1 Opening remarks**

Larry Schoeneman called the meeting to order at 9:00 a.m. He welcomed everyone in attendance to the Fog & Smoke Working Group meeting, and noted that the meeting should be brief.

**2 Attendance and membership**

**2.1 Introductions of those present**

A bright yellow sign-in sheet was passed counter-clockwise around the table while self-introductions took place.

**2.2 Determination of quorum**

After counting a show of voters' hands, Larry Schoeneman announced a quorum present.

**2.3 Recognition of alternate voting members**

There were no alternates voting in place of their principals to be recognized.

**2.4 Requirements for membership**

The following was read aloud to the assembly by Larry Schoeneman:

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 three consecutive letter ballots or three consecutive meetings are missed. 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 and change in status requests**

As of 26 February 2015, the following applications have been received and logged:

Stephen Vanciel; IATSE Local 631; P; U

Margaret Buckalew, MPH; Environmental Resource Management (ERM); O; G

Mike Wood moved to accept the new applications. The motion was seconded and approved by a unanimous show of hands.

### 2.7 Processing of changes to observer status if this meeting is missed

There are currently no voting members in jeopardy of a change in status due to lack of attendance.

### 2.8 Consensus body

The full consensus body of this working group at the time of this meeting, including those not present, was:

Name	Representing	Voting status	Interest category
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Larry Schoeneman	DesignLab Chicago, Inc.	P	DR
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Stephen Vanciel	IATSE Local 631	P	U
Mike Wood	Mike Wood Consulting LLC	P	G
Paul Jordan	NBC Universal	P	U
Matthew R. DeLong	Rosco Laboratories	P	MP
Brad Dittmer	Stage Labor of the Ozarks	P	U
Marnie Styles	Ultratec Special Effects Inc.	P	MP
Don Phillips	Ultratec Special Effects Inc.	A	MP
Mark Elliott	Walt Disney Company	P	U
<b>Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter</b>			
<b>Votes by Interest Category:</b>			
Custom-market producer		CP	0
Designer		DE	0
Dealer or rental company		DR	1
General interest		G	1
Mass-market producer		MP	2
User		U	6
<b>Total votes possible:</b>			10

### 3 Approval of minutes from the previous meeting

See *FSmin11-2014.pdf*

Mike Wood moved to accept the minutes of the November meeting as drafted. The motion was seconded and approved by a unanimous show of hands.

### 4 Approval of agenda

Larry Schoeneman asked if there were any additions to the agenda. Hearing none, Mike Wood moved to accept the agenda for this meeting as drafted. The motion was seconded and approved by a unanimous show of hands.

## 5 Reading of the call for patents

The following was read aloud to the assembly by Larry Schoeneman:

PLASA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. PLASA uses a process of open patent and copyright disclosures to implement its intent. PLASA 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.

Nothing was revealed.

## 6 Reading of the anti-trust statement

The following was read aloud to the assembly by Larry Schoeneman:

PLASA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all PLASA events, all discussions will be limited to those subjects that are permitted by the antitrust laws. All members should refrain from any discussion or mention of competitively sensitive subjects such as the current or future prices charged for any member product or services, current or future marketing plans or strategies, and current or future costs, including employee salaries. There also must be no agreement on the suppliers or customers that members will do business with or the markets in which members will conduct business.

Violations of the antitrust laws can have serious consequences. If you have any questions or concerns about anything that is discussed at a PLASA meeting, please bring your concern to PLASA management. An easy to read pamphlet describing the antitrust laws is available from the PLASA staff.

Erin Grabe held up the pamphlet. Nothing was revealed.

## 7 Old Business

### 7.1 ANSI E1.5 – 2009 (R2014), Entertainment Technology - Theatrical Fog Made with Aqueous Solutions of Di- and Trihydric Alcohols (Reaffirmation, revision, or withdrawal by 2019)

No news or action at this time.

### 7.2 ANSI E1.14 - 2001 (R2013), Entertainment Technology - Recommendations for Inclusions in Fog Equipment Manuals (Reaffirmation, Revision, or Withdrawal by 2018)

No news or action at this time.

### 7.3 ANSI E1.23 – 2010 (R2015), Entertainment Technology - Design and Execution of Theatrical Fog Effects (Reaffirmation, revision, or withdrawal by 2020)

Larry Schoeneman reminded the group that this standard is published! There was no further news or action at this time.

### 7.4 ANSI E1.29 – 2009 (R2014), Product Safety Standard for Theatrical Fog Generators that Create Aerosols of Water, Aqueous Solutions of Glycol or Glycerin, or Aerosols of Highly Refined Alkane Mineral Oil

No news or action at this time.

### 7.5 ANSI E1.40 - 2011, Recommendations For the Planning of Theatrical Dust Effects (Revision, reaffirmation, or withdrawal by 2016)

No news or action at this time.

## **7.6 Introduction to Modern Atmospheric Effects, 4th edition**

*See IntroToModernAtmosphericEffects5.pdf. This is "old business" because adding a clause excluding e-cigarettes from atmospheric effects was an action item from the last meeting. The existing 4th edition also contains some text formatting errors (e.g., O<sup>2</sup> where it should be O<sub>2</sub>) and outdated references, so it needs to be revised. Revision requires a public review before formal publication to keep PLASA North America legal counsel happy.*

Karl Ruling explained the changes, which included language to the effect that e-cigarettes, hookahs, and dust in the air are excluded from what is considered a modern atmospheric effect.

Mike Wood moved that the document be offered for public review. The motion was seconded and approved by a unanimous show of hands.

[The public review has already been approved by the Technical Standards Council, contingent on the working group also approving it.]

## **8 New business**

### **8.1 E-puffer cigars/cigarettes**

*See an email dated 19 November 2014 from Don Phillips, DonPhillipsConcernsAboutECigarettes.pdf. Also see the explanation from Karl Ruling on how the limits for fog exposure were derived, WhereTheNumbersComeFrom.pdf.*

There was some discussion about the hazards of e-cigarettes and mixed fluid/machine combinations. Karl Ruling agreed to speak with Keith Sklar about the longer list of calibration factors.

Mat DeLong reiterated that he thought that e-cigarettes would again become an agenda item for this body. Larry Schoeneman, Karl Ruling, and Mike Wood reiterated that e-cigarettes are not a modern atmospheric effect, and are being specifically excluded from the purview of this group.

### **8.2 Other new business**

## **9 Liaison Reports**

### **9.1 PLASA EU**

### **9.2 NFPA**

It was noted that there is new language in NFPA 160 and NFPA 1126.

## **10 Other business**

### **10.1 TSP Funding**

Larry Schoeneman described the funding problems of the Technical Standards Program and made a plea for donations from members.

### **10.2 Above & Beyond Awards**

Larry Schoeneman reminded the group that the nomination site is open year round at [tsp.plasa.org/AboveandBeyond](http://tsp.plasa.org/AboveandBeyond). Mike Wood noted to the group that Larry Schoeneman had been awarded the Above & Beyond award by the Technical Standards Council for his efforts in fund-raising.

### **10.3 TSP sessions at LDI 2015**

Erin Grabe reminded the group that session information for TSP 90-minute sessions at LDI 2015 are due at the end of this meeting cycle. The group agreed to take on a session centered around the health and

financial risks of modern atmospheric effects. Karl Ruling to moderate, with Matt DeLong, and Don Philips as panelists.

#### **11 Schedule for future meetings**

The group agreed to meet in July 2015. The schedule is posted at <http://na.plasa.org/news/meetings.php>.

[Subsequent to this meeting, Friday 24 July 2015 from 7pm-11pm was published as the date and time for the next meeting at the Marriott Solana in Westlake, TX.]

#### **12 Adjournment**

Mike Wood moved to adjourn. The motion was seconded and approved by a show of hands. Larry Schoeneman declared the meeting adjourned at 10:00.

<b>Name</b>	<b>Company</b>	<b>Representing</b>	<b>Voting status</b>	<b>Int. cat.</b>
Matthew Antonucci	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	P	U
Clive Bailey	Martin Professional A/S	Martin Professional A/S	O	MP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	U
Paul Beasley	Walt Disney Imagineering	Walt Disney Company	O	U
Ron Bonner	PLASA Technical Resources Office	PLASA EU	O	G
Margaret Buckalew	Environmental Resource Management (ERM)	Environmental Resource Management (ERM)	O	G
Justin Cicerone	Martin Professional	Harman International Industries	O	MP
Jim Cooper	Palomar College	USITT	O	U
Gary Crawford	C I T C	C I T C	O	MP
Matthew R. DeLong	Rosco Laboratories	Rosco Laboratories	P	MP
Brad Dittmer	Stage Labor of the Ozarks	Stage Labor of the Ozarks	P	U
Mark Elliott	Walt Disney Company	Walt Disney Company	P	U
Gary Fails	City Theatrical, Inc.	City Theatrical, Inc.	O	MP
Lowell Fowler	High End Systems Inc.	High End Systems Inc.	O	MP
Randy L. Fox	Walt Disney Company	Walt Disney Company	O	U
Reuben Goldberg	Technic Services	Technic Services	O	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	O	G
Erin Grabe	PLASA NA	PLASA NA	exf	G
Paul Jordan	NBC Universal	NBC Universal	P	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	O	G
Nathan Kahn	Look Solutions USA Ltd.	Look Solutions USA Ltd.	O	MP
Thomas V. Korder	Krannert Center for the Performing Arts	University of Illinois	O	U
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Peggy Lee Martindale	University of Texas, Austin	University of Texas, Austin	O	G
Greg Meeh	Jauchem & Meeh, Inc.	Jauchem & Meeh, Inc.	O	DR
Martin Michaud	MDG Fog Generators Ltd.	MDG Fog Generators Ltd.	O	MP
Don Phillips	Ultratec Special Effects Inc.	Ultratec Special Effects Inc.	A	MP
Monona Rossol	Arts, Crafts & Theater Safety	Monona Rossol	O	G
Karl G. Ruling	PLASA NA	PLASA NA	exf	G
Larry Schoeneman	DesignLab Chicago, Inc.	DesignLab Chicago, Inc.	P	DR

Name	Company	Representing	Voting status	Int. cat.
Adrian Segeren	Ultratec Special Effects Inc.	Ultratec Special Effects Inc.	O	MP
Ford Sellers	Chauvet Lighting	Chauvet Lighting	O	MP
Marnie Styles	Ultratec Special Effects Inc.	Ultratec Special Effects Inc.	P	MP
Eric Tishman	Rosco Laboratories	Rosco Laboratories	O	MP
Stephen Vanciel	IATSE Local 631	IATSE Local 631	P	U
Colin Waters	TMB	TMB	O	G
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P	G
Norman Wright	Group One Ltd.	Group One	O	DR

**Voting Status Key:** P = Principal voter, A = Alternate voter, I = Individual voter, O = Observer member, exf = ex officio member (staff)

**Interest Category Key:** CP = Custom-market producer, DE = Designer, DR = Dealer or rental company, G = General interest, MP = Mass-market producer, U = User