

Minutes
Photometrics Working Group
Sunday 27 October 2019
D/FW Marriott Solana
Westlake, TX

Chairperson: Jerry Gorrell; Theatre Safety Programs

Recording secretaries: Richard Nix and Karl Ruling; ESTA

Attendees:

Justin Bennett; University of the Incarnate Word; P; U
Jim Bogdanowicz; Kino Flo, Inc.; A; MP
Pete Borchetta; Altman Lighting; A; MP
John David (Javid) Butler; HDR Consulting, LLC; P; DE
Tucker Downs; Tucker Downs; O; G
Nicolas Goerg; Rosco Laboratories; P; CP
Jerry Gorrell; Theatre Safety Programs; P; U
Mitch Hefter; Signify; P; MP
Ed Hyatt; Boston Illumination Group; P; CP
Hans Lau; I.A.T.S.E. Local 728; P; U
Michael Lay; Michael Lay; I; G
Wendy Luedtke; Electronic Theatre Controls, Inc.; P; MP
Jason Osterman; Altman Lighting; P; MP
Mark Primrose; Kino Flo, Inc.; P; MP
Karl G. Ruling; Unit 12 Productions; I; DE
Mike Wood; Mike Wood Consulting LLC; P; G

1 Opening Remarks

Jerry Gorrell called the meeting to order at 14:03. Thanked people for being here.

2 ESTA declarations

2.1 Call for patents

The following statement was aloud to the working group by Jerry Gorrell:

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, patent application, 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.

2.2 Reading of the anti-trust statement

The following statement was aloud to the working group by Jerry Gorrell:

ESTA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all ESTA 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 or will not 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 ESTA meeting, please bring your concern to ESTA management. An easy to read pamphlet describing the antitrust laws is available from the ESTA staff.

Karl Ruling displayed one of the easy-to-read pamphlets to show that it is available.

No anti-trust concerns were brought to the attention of the assembly.

3 Attendance and membership

3.1 Requirements for membership

The following statement was read aloud to the working group by Jerry Gorrell:

Membership is open to all who are affected by the work of the group. Voters who would be in the designer or dealer/rental company interest category in particular are encouraged to become members. There is an annual \$100 participation fee for all members. Voting members are required to attend meetings and to vote on letter ballots. Voting members and their alternates may not miss three consecutive meetings or three consecutive letter ballots without a loss of voting status.

3.2 Introductions of attendees

A green sign-in sheet was circulated while people introduced themselves.

3.3 Determination of quorum

Jerry Gorrell announced that more than 50% of the voting body was present, which is far more than necessary for a quorum and enough to pass any motion needing a supermajority.

3.4 Processing of new membership and status change requests

The following applications have been received since the last meeting:

Bob Goddard; Goddard Design; O; CP
Hans Lau; IATSE Local 728; P; U
Jason Osterman; Altman Lighting; P; MP
Javid Butler; HDR Consulting LLC; P; DE
Jim Bogdanowicz; Kino Flo Lighting Systems; A; MP
Larry Schoeneman; I; G (change of company, voting status, and int. cat.)
Michael Lay; Michael Lay; I; G
Nicolas Goerg; DMG Lumière, representing Rosco Laboratories; P; CP
Pete Borchetta; Altman Lighting; A; MP
Tucker Downs; O; G

Mike Wood moved that the applications be accepted as requested, except for Schoeneman, who would be accepted as an observer because he is not present and would not be able to vote.

3.5 Changes to observer status

3.5.1 Changes due to attendance

None.

3.5.2 Changes due to missed ballots

None.

3.5.3 Automatic status changes

The following automatic status changes have been made since the last meeting:

Larry Schoeneman; DesignLab Chicago, Inc. (change of representation)
 Michael Lay; Signify (change of representation)
 Mike Wagner; Arnold & Richter Cine Technik (no longer with Arnold & Richter, now with Lightgear)

Mike Wagner was removed from the membership. No application had been received from him for him to represent his new employer.

3.6 Consensus body

The table below shows the full consensus voting body during this meeting, including voters not present.

Name	Representing	Voting status	Int cat
Jason Osterman	Altman Lighting	P	MP
Peter Borchetta	Altman Lighting	A	MP
Ed Hyatt	Boston Illumination Group	P	CP
Wendy Luedtke	Electronic Theatre Controls, Inc.	P	MP
Javid Butler	HDR Consulting LLC	P	DE
Hans Lau	IATSE Local 728	P	U
Mark Primrose	Kino Flo, Inc.	P	MP
Jim Bogdanowicz	Kino Flo, Inc.	A	MP
Michael Lay	Michael Lay	I	G
Mike Wood	Mike Wood Consulting LLC	P	G
Nicolas Goerg	Rosco Laboratories	P	CP
Mitch Hefter	Signify	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Karl G. Ruling	Unit 12 Productions	I	DE
Justin Bennett	University of the Incarnate Word	P	U
Total votes possible		13	
Votes by interest categories		2	CP
		2	DE
		0	DR
		2	G
		4	MP
		3	U

4 Approval of the minutes from the last meeting

See *PHMin07-2019DRAFT.pdf*

Justin Bennett moved that the draft minutes be accepted as written. The motion was seconded. There was no discussion. The minutes were approved with all voting in favor, except for one abstention.

5 Approval of agenda

Mike Wood moved that the draft agenda be approved. The motion was seconded. The agenda was approved without objection or abstention.

6 Old Business

6.1 ANSI E1.9 – 2007 (R2017), Reporting Photometric Performance Data for Luminaires Used in Entertainment Lighting (Revision, reaffirmation, or withdrawal by 2 November 2022)

No news or action.

6.2 ANSI E1.25 – 2012 (R2017), Recommended Basic Conditions For Measuring The Photometric Output Of Stage And Studio Luminaires By Measuring Illumination Levels Produced On A Planar Surface (Revision, reaffirmation, or withdrawal by 2 November 2022)

No news or action.

6.3 ANSI E1.35 – 2013 (R2018), Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use (Revision, reaffirmation, or withdrawal by 27 February 2023)

Karl Ruling asked if the standard is used. Mike Wood says it is used in-house by ETC and others, but it is not used in marketing.

6.4 ANSI E1.36 – 2007 (R2017), Model Procedure for Permitting the Use of Tungsten-Halogen Incandescent Lamps and Stage and Studio Luminaires in Vendor Exhibit Booths in Convention and Trade Show Exhibition Halls (Revision, reaffirmation, or withdrawal by 2 November 2022)

No news or action.

6.5 ANSI E1.41 – 2016, Recommendations for Measuring and Reporting Photometric Performance Data for Entertainment Luminaires Utilizing Solid State Light Sources (Revision, reaffirmation, or withdrawal by 16 September 2021)

No news or action.

6.6 ANSI E1.48 – 2014 (R2019), A Recommended Luminous Efficiency Function for Stage and Studio Luminaire Photometry (Revision, reaffirmation, or withdrawal by 08 January 2024)

No news or action.

6.7 BSR E1.54, ESTA Color Standard

Task group: Wendy Luedtke, Mark Primrose, and Mike Wood

Michael Wood said we are back to where we were on the 25th of October in 2018. The draft requires only the x,y coordinate to be sent. RGB color space is in for information, but it is not necessary for communicating color.

Tucker Downs commented on the NextGen Color task group meeting. They seem their job as communicating the color information that is required by E1.54.

Karl Ruling was directed to send the most recent draft of E1.54 to the working group.

6.8 ANSI E1.55 – 2016, Standard for Theatrical Makeup Mirror Lighting (Revision, reaffirmation, or withdrawal by 16 September 2021)

No news or action.

7 New business

7.1 Possible new project – baseline reporting of dimming curves for solid state lighting fixtures

From the draft July meeting minutes:

Jerry Gorrell suggested that we need to bring more of the stakeholders to the table for a larger discussion, before voting on accepting this project. He suggested trying to target more of them specifically to attend the next Westlake meeting for further discussions. He appointed Justin Bennett, Michael Lay, and Mark Primrose to an ad hoc task group, which will collectively solicit participants for a larger focus group. The group will schedule a September WebEx meeting as

necessary, and will report back to the working group in October.
See LED_dimming_ProjectRequest-Copy.pdf, which has a much simplified scope from the original two LED dimming proposals. This project would need to be approved by the working group, or modified and then approved, or rejected.

Justin Bennett moved we accept the project. Seconded. There was discussion. Pete Borchetta said that we want from 5% down to 0% and also from 0% up to 5%.

Mitch Hefter reported. ANSI C137.1-2019, American National Standard for Lighting Systems—0-10V Dimming Interface for LED Drivers, Fluorescent Ballasts, and Controls

Hans Lau suggested that there are anomalies in film equipment below 10%, so the range of 0 to 10% should be covered.

The scope for the PINS shall be: The standard shall describe a way of showing the end-user or equipment specifier the low-end (10% to 0% and 0% to 10%) dimming performance of LED luminaires.

The motion carried.

Jerry Gorrell appointed a task group consisting of Javid Butler, Justin Bennett, Karl Ruling, Pete Borchetta, and Jason Osterman. Karl Ruling is to be the task group leader.

8 Other business and announcements

8.1 Awards

8.1.1 Above & Beyond Awards

Attendees were reminded that the Above & Beyond nomination site is open year-round at http://tsp.esta.org/tsp/news/award_nomination.html. The award is designed for members to highlight the work of their peers. The website says nominations for this year are due November 1. The awards will be presented at the beginning of next year.

8.2 Education

8.2.1 INNOVA

Attendees were reminded that the INNOVA site can be accessed at <http://innova.usitt.org>. Content and content providers are still being sought. If you are interested, email standards@esta.org to be put in touch with someone.

8.2.2 NATEAC

Submit proposals to bill@nateac.org.

8.3 ESTA document link policy

At the request of ESTA's Executive Director, attendees were reminded to ensure that web references to ESTA, including links to ESTA's web pages, are current, and use the correct text reference. Also, please do not direct-link to any ESTA standards document, nor post ESTA standards documents for download, from your website. Please link to ESTA's TSP downloads page, found at https://tsp.esta.org/tsp/documents/published_docs.php.

9 Schedule for future meetings

The full meeting schedule may be found at <http://www.esta.org/ESTA/meetings.php>.

9.1 Winter 2020 meetings (NAMM, Anaheim, CA)

It was announced that the Winter 2020 meetings will again be held in conjunction with the Winter NAMM 2020 show, 15-19 January 2020. The Photometrics Working Group meeting is scheduled for 15:00 PST,

Friday 17 January 2020, at the Wyndham Garden Anaheim.

9.2 Spring 2020 meetings (USITT, Houston, TX)

The Spring 2020 meetings will be held in conjunction with the USITT conference in Houston, TX, from 01-04 April 2020. The complete schedule has not yet been confirmed.

9.3 Summer 2020 meetings (NATEAC, NYC)

The Summer 2020 meetings will be held in conjunction with the NATEAC event in New York City, 19-20 July 2020. The complete schedule has not yet been confirmed, but probably the working group meetings will be held over a few days before NATEAC starts. The venue is the Roosevelt Hotel.

10 Adjournment

Having reached the end of the agenda, and no further business needing to be conducted, Jerry Gorrell declared the meeting adjourned at 15:05.

Delegate	Company	Representing	Voting status	Int. cat.
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Justin Bennett	University of the Incarnate Word	University of the Incarnate Word	P	U
Jim Bogdanowicz	Kino Flo, Inc.	Kino Flo, Inc.	A	MP
Pete Borchetta	Altman Stage Lighting	Altman Lighting	A	MP
John David (Javid) Butler	HDR Consulting, LLC	HDR Consulting, LLC	P	DE
Tucker Downs	Tucker Downs	Tucker Downs	O	G
Bill Ellis	Candela Controls, Inc.	Candela Controls, Inc.	O	U
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	exf	
Robert Goddard	Goddard Design Co.	Goddard Design Co.	O	CP
Nicolas Goerg	DMG Lumiere	Rosco Laboratories	P	CP
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Erin Grabe	ESTA	ESTA	exf	G
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	O	U
Robert Haycock	Cal Performances	UC Berkeley	O	U
Mitch Hefter	Signify	Signify	P	MP
Ed Hyatt	Boston Illumination Group, Inc.	Boston Illumination Group	P	CP
Frank Kjær Jensen	Martin Professional ApS	Harman International Industries	O	MP
Hans Lau	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Michael Lay	Michael Lay	Michael Lay	I	G
Rick Loudenburg	Barbizon Light (Denver)	Barbizon Companies	O	DR
Wendy Luedtke	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Richard J. Nix	ESTA	ESTA	exf	G
Jason Osterman	Altman Stage Lighting	Altman Lighting	P	MP

Delegate	Company	Representing	Voting status	Int. cat.
Mark Primrose	Kino Flo, Inc.	Kino Flo, Inc.	P	MP
Mark Ravenhill	GLP German Light Products Inc.	GLP German Light Products Inc.	O	MP
Karl G. Ruling	Unit 12 Productions	Unit 12 Productions	I	DE
Karl G. Ruling	ESTA	ESTA	exf	G
Larry Schoeneman	Larry Schoeneman	Larry Schoeneman	O	G
Ford Sellers	Chauvet Lighting	Chauvet Lighting	O	MP
Keith Sklar	Actors' Equity Association	Actors' Equity Association	O	G
Robert Timmerman	Philips Color Kinetics	Signify	O	MP
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P	G

CP = Custom-market Producer

MP = Mass-market Producer

P = Principal voter

DE = DEsigner

U = User

A = Alternate voter

DR = Dealer or Rental company

I = Individual voter

G = General interest

O = Observer