

Minutes
Electrical Power Working Group
09:00 - noon
Friday, 19 January 2007
Dallas/Ft. Worth Airport Marriott South
Ft. Worth, TX

Chairmen: Ken Vannice; Colortran (Leviton Manufacturing Co., Inc.); P; MP
Mitch Hefter; Entertainment Technology (Genlyte Group), representing USITT; P; U

Recording secretary: Karl G. Ruling

Members attending:

Richard L. Eberth Jr.; North Shore Safety; (Airpax Corporation); O; MP
Steve Terry; Electronic Theatre Controls, Inc.; P; MP
Elizabeth E. (Lizz) Chancellor; I; U
Ian Foulds; IATSE Local 873, representing the Entertainment Electrical Safety Committee of Ontario;
P; G
Michael Lay; Strand Lighting (Genlyte Group LLC); P; MP
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Keith S. Woods; Lakhri Impressions Ltd., representing IATSE Local 891; P; U
John (Javid) D. Butler; Integrated Theatre, Inc.; P; CP
Stephen J. Kay; K-Tec Corporation; P; MP
Bob Luther; Lex Products Corp.; P; CP
Kenneth M. Makowski; Lex Products Corp.; A; CP
Louis Bradfield; I; U
Jeff deRecat; Marinco; P; MP
W. G. Krokaugger, P.E.; Mole-Richardson Co.; P; CP
Vincent J. Cannavale; Motion Laboratories; P; CP
Peter Herrmann; Motion Laboratories; A; CP
Ron Bonner; PLASA; P; U
Michael Scudday; SSRC, Inc.; P; CP
Jerry Gorrell; Theatre Safety Programs; P; U
Brett Paddor; TMB; P; MP
Richard Wolpert; Union Connector Company; P; CP
William L. Maiman; P; U

Visitors: None

1 Opening remarks

Ken Vannice called the meeting to order at 09:00. He thanked Eddie Kramer for providing lox and bagels.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

Those present introduced themselves, proceeding counterclockwise around the large hollow-square table.

2.2 Determination of quorum

Mitch Hefter asked for a show of hands of voting members. He noted that we have more than 13 present, more than enough to pass a supermajority vote and certainly enough to constitute a quorum.

2.3 Recognition of alternate voting members

Mitch Hefter noted that alternates may not vote on a motion that is also being voted on by the principal. There is only one vote allowed per company.

2.4 Requirements for membership

Mitch Hefter read the following statement aloud to the assembly:

"Membership is open to all who are affected by the work of the group. Companies that would be in the dealer/rental company interest category in particular are encouraged to become 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 without a loss of voting status."

2.5 Processing of new membership requests

The following people had applied for membership:

Name	Company	Representing	Voting status	Int. cat.
Elizabeth E. (Lizz) Chancellor	Elizabeth Chancellor	Elizabeth Chancellor	I	U
Simon Hunt	IATSE Local 891	IATSE Local 891	A	U
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
Peter Herrmann	Motion Laboratories	Motion Laboratories	A	CP
Ron Bonner	PLASA	PLASA	P	G

Ron Bonner said that Nic Bowker should be removed as a representative for PLASA on the working groups. Bowker has left PLASA's full-time staff to pursue a career as a free-lance CAD draftsman. He will still work for PLASA on a part time basis, but PLASA management has decided that Bowker should not be PLASA's representative on the working groups.

Roger Lattin moved that the above applications be accepted. The motion was seconded and then approved with a show of hands.

Steve Kay asked to be reinstated as voting member. Keith Woods moved that his request be honored, and that Steve Kay to be reinstated as a principal voting member. The motion was seconded, and then approved with a show of hands.

Bill Krokauger reported that Al DeMayo no longer works for Mole Richardson. Therefore, he should be removed as a representative for the company.

The voting body during this meeting was therefore:

Name	Company	Representing	Voting status	Int. cat.
James Davey	AC Power Distribution Inc.	AC Power Distribution Inc.	P	CP
Greg Mayberry	AC Power Distribution Inc.	AC Power Distribution Inc.	A	CP
George Long	Aggreko Event Services	Aggreko	P	DR
Kenny Delahoussaye	Aggreko	Aggreko	A	DR
Wolfgang Hofheinz	Bender GmbH & Co. KG	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
Paul Menetrey	Menetrey Partners	Bender GmbH & Co. KG	A	MP
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Elizabeth E. (Lizz) Chancellor	Elizabeth Chancellor	Elizabeth Chancellor	I	U
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Committee of Ontario	P	G
Michael Lay	Strand Lighting	Genlyte Group LLC	P	MP

Name	Company	Representing	Voting status	Int. cat.
Pat Miller	Hubbell Wiring Devices	Hubbell Inc.	P	MP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
R. Bruce Prochal	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Patric J. Abaravich	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Keith S. Woods	Lakhri Impressions Ltd.	IATSE Local 891	P	U
Simon Hunt	IATSE Local 891	IATSE Local 891	A	U
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	P	CP
Stephen J. Kay	K-Tec Corporation	K-Tec Corporation	P	MP
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	P	MP
Bill Grande	Leviton Manufacturing Co., Inc.	Leviton Manufacturing Co., Inc.	A	MP
Bob Luther	Lex Products Corp.	Lex Products Corp.	P	CP
Kenneth M. Makowski	Lex Products Corp.	Lex Products Corp.	A	CP
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U
Jeff deRecat	Marinco/ADI	Marinco	P	MP
Bud Toly	Marinco/ADI	Marinco	A	MP
William Drake	Marinco	Marinco	A	MP
W. G. Krokaugger, P.E.	Mole-Richardson Co.	Mole-Richardson Co.	P	CP
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
Peter Herrmann	Motion Laboratories	Motion Laboratories	A	CP
Ron Bonner	PLASA	PLASA	P	U
Michael Scudday	SSRC, Inc.	SSRC, Inc.	P	CP
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	P	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Brett Paddor	TMB	TMB	P	MP
Colin Waters	TMB	TMB	A	MP
Richard Wolpert	Union Connector Company	Union Connector Company	P	CP
Mitch Hefter	Entertainment Technology (Genlyte Group)	USITT	P	U
William L. Maiman	William L. Maiman	William L. Maiman	P	U
		Total	27	
		Votes possible by interest category	7	CP
			8	MP
			1	DR
			10	U
			1	G

3 Approval of the minutes from the previous meeting (EP/2006-7020, file name EPmin10-2006.pdf)
Steve Terry moved that the draft minutes of the October 2006 meeting be accepted as written. The motion was seconded. The motion was approved with a show of hands.

4 Reading of the call for patents

The following statement was read aloud to the assembly by Ken Vannice:

"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."

5 Reading of the anti-trust statement

The following statement was read aloud to the assembly by Ken Vannice:

"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 pamphlets to show their availability.

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

6 Approval of agenda

Javid Butler moved that the draft agenda be accepted as written. The motion was seconded and then approved with a show of hands.

7 Old business - task group reports

7.1 EMC task group [Vannice]

Ken Vannice reported that last summer people sent letters to the Canadian Standards Association urging them not to adopt IEC 61000-3-2 for use in Canada, but since then he hasn't heard any news.

7.2 ANSI E1.24-2006, pin connectors

Vannice reported that at the NEC code-making panel meeting in December in Redondo Beach, he had an opportunity to talk to Don Talka, the chief engineer for Underwriters Laboratories, so he urged Talka to put ANSI E1.24 into UL's safety standards.

There was a discussion of how we might encourage UL to use ANSI E1.24 to ensure that pin connectors from one manufacturer will mate with the connectors from another.

Richard Wolpert, Jeff deRecat, and Bill Krokaugger volunteered to draft a proposal or proposals for UL 498 adding references to the standard covering the configuration of pin connector products and referencing ANSI E1.24-2006.

Steve Terry moved that the task group (Richard Wolpert, Jeff deRecat, and Bill Krokaugger) draft a proposal for UL 498 requiring compliance with ANSI E1.24-2006 for connector configuration, and that Karl Ruling, the Technical Standards Manager, draft a letter to the UL chief engineer urging rapid adoption of ANSI E1.24. Ruling's letter shall be reviewed by Ken Vannice and Mitch Heffer. The motion was seconded. There was discussion, and then the motion was approved with a show of hands.

7.3 BSR E1.18 portable feeder cable selection and use—Public review comment resolution report.

Eddie Kramer gave a break down of how many people commented, how many comments were offered, how many comments were editorial, how many were substantive, how many required very large changes to the document. He distributed a one-sheet statement of the philosophy of the E1.18 task group with questions for the working group. The philosophy statement had been drafted by three

members of the task group, not the entire task group that was appointed at the last working group meeting.

There was a discussion of where the document is going. It is an expanding document, and some working group members considered it to be getting too large. Kramer explained that it was thought that once all the information is assembled into the document, it then could be pared down, with the excess material going into a handbook. Steve Terry said that he thought that having a standard and a handbook for such a simple subject seemed to be too much. This is supposed to be a document for the end-user. Keith Woods said that his crews can understand a single-conductor power distribution system in about ten minutes. Twelve pages--three pages--should be enough. Eddie Kramer related some of his experiences that have lead to him to add material. According to Kramer, the scope creep of the document has been driven by real-world problems.

There was an extended discussion of how large the document is and the intended audience.

Terry pointed out that the deliverable that is needed right now is the draft comment resolution. Discussions of how large the document is or how it can be turned into multiple products is beside the point for what is due right now.

Eddie Kramer was asked who is doing the comment resolution. He said that the group was Roger Lattin, Bill Maiman, and himself. Kramer distributed a timeline for doing the comment resolutions, with a projected finish of the comment resolutions by May 26.

There was an agreement to have a telephone meeting of Roger Lattin, Bill Maiman, Eddie Kramer, Ken Vannice, Jerry Gorrell, Javid Butler, and Mitch Hefter. Eddie Kramer will work with Karl Ruling to arrange a telephone conference call.

Kramer distributed draft comment resolutions on paper for the first 12 comments to those members of the working group who were present. There was some discussion of acting on them now, but the consensus was not to do so. Ruling suggested that working group members send any comments on the draft resolutions to Kramer.

Kramer said that he'd posted the task group's working documents on a website at <http://eskramer.com>.

7.4 BSR E1.19 GFCI task group—Public review comment resolution report.

Bob Luther reported that the task group completed the second public review comment resolutions (89 comments) and revised the standard. The group also met last night (they meet every night before the meeting) and reviewed the comment resolutions and the revised document, and they reviewed some comments on the draft resolutions that had come in since the draft resolutions were distributed.

A UL engineer had commented that the scope should be changed. He proposed adding a short phrase to the scope statement or a much longer phrase detailing the power distribution systems that would be within the scope. Luther asked for the working group's preference. The sense of the working group was that "150 VAC to ground or less" was clear enough, but that it would be useful to add a fine print note stating "Systems that are 240 VAC to ground (e.g., European power systems) are outside of the scope of UL 943 for Class A GFCI, so they are outside the scope of this E1.19 standard."

The task group also decided to spell "theatre" as "theatre" and not "theater." The working group concurred. So the resolution for the question asking about whether the spelling is "theatre" or "theater" would be the flat statement that we are adopting "theatre."

Steve Terry moved that the comment resolutions as amended by Bob Luther's report be accepted. The motion was seconded. The motion was accepted with a unanimous show of hands except for

one abstention from Steve Kay. Since there were 22 voting members present out of a voting body of 27, the Yes votes constituted a supermajority vote.

Steve Terry asked why one member of the task group voted to abstain. Steve Kay said that he has worked hard on the project but recently hasn't been able to attend meetings, so he feels a bit out of the loop, and he just doesn't feel that he's ready to vote on anything.

Javid Butler moved that the working group shall direct the task group to revise the draft E1.19 document per the comment resolutions as amended and adopted at this meeting. The motion was seconded. The motion was approved with a unanimous show of hands, except for one abstention.

There was a discussion of what needs to be done to reference or not the latest edition of UL 943, whether the new trinational version is significantly different.

Bob Luther moved that the revised BSR E1.19 document be offered for public review. The motion was seconded. There was an objection to voting on this motion relative to the revised document at the meeting, since no one at the meeting had had a chance to review the document with the changes approved at this meeting. It was agreed that the question would be decided by letter ballot.

7.5 BSR E1.32 luminaire inspection guidance

Progress report and consideration of first public review. See EP/2006-7016r2a, file name BSR_E1-32_2006-7016r2a.pdf.

Jerry Gorrell moved that the BSR E1.32 document be offered for public review. The motion was seconded. The motion for this first public review will be decided by letter ballot, as is required by our operating procedures.

7.6 Generator earthing

Roger Lattin reported that he had emailed a survey to parties who might be able to comment on generator earthing practices two days before this meeting. He does not have the results of his yet. He had no further report.

7.7 CANENA report

Ken Vannice reported that the group is continuing to have web meetings and to work on the dimensions of cam connector brass. He suggested that people contact him if they want to become involved and he will provide the necessary information.

8 New business

8.1 Reaffirmation, revision, or withdrawal of ANSI E1.16-2002, Configuration Standard for Metal Halide Ballast Power Cable

It's approaching its fifth birthday so some action needs to be taken to reaffirm, revise, or withdraw the document. The published standard is available for free at http://www.esta.org/tsp/documents/docs/ANSI_E1-16_2002.pdf.

Steve Terry moved that we start work to reaffirm ANSI E1.16-2002. The motion was seconded, and then approved with a unanimous show of hands, except for one abstention. Karl Ruling will announce the start of the reaffirmation project with ANSI by filing the appropriate PINS form.

Steve Terry moved that the ANSI E1.16 document be offered for public review. The motion was seconded. The question will be decided by letter ballot.

8.2 Other new business

None.

9 Other business

Mitch Hefter reported that he is now the Principal representative for the IESNA to NEC Code Panel 15. He reported some of the highlights of the NEC voted on at the code panel meetings in Redondo Beach, CA. There is a new article 522 (previously proposed as 519) for ride control for amusement attractions. The neutral power feeder conductor will not have to be derated for sine-wave dimmer systems. There have been some other changes made to clarify grounding and bonding requirement. There now will be specific language in Articles 700 (Emergency Systems) regarding dimmer systems being acceptable if Listed for the purpose. Other changes were mostly editorial.

The highlight of the meetings was a tour of CBS Studio Center arranged by Mike Skinner and led by him along with Roger Lattin and Alan Rowe of IATSE 728. This tour was to help the "non-entertainment" members of Panel 15 learn more about what we do. Local 728 also provided dinner for the group, which was quite good.

Ken Vannice reported that he'd told the tour attendees about the Entertainment Technician Certification Program and particularly about the electrical certification. The attendees were appropriately impressed and appreciative of our efforts.

10 Changes to observer status with third meeting missed

Members who have missed the previous two meetings and who will not have met the minimum attendance requirements if this meeting is missed:

George Long and Kenny Delahoussaye of Aggreko
Pat Miller of Hubbell Inc.

Mitch Hefter announced that they are now observers, having failed to meet the minimum meeting attendance requirement.

11 Schedule for future meetings

It was announced that the next working group meeting is scheduled for Wednesday, 14 March 2007, 09:00 to noon, at the Hyatt Regency Phoenix in Phoenix, AZ.

Karl Ruling pointed out that the draft meeting schedule was posted on the ESTA website and printed in *Standards Watch*. He asked people to review it. If they have a meeting scheduled and don't need it, please let him know so we can cancel it and not incur the expense. If they need a meeting and none is scheduled, please let him know, too.

12 Adjournment

Javid Butler moved that the meeting adjourn. The motion was seconded and then approved with a unanimous show of hands. Mitch Hefter declared the meeting adjourned at 12:01.

EPWG Membership and Contact Information as of 02 February 2007

Name	Company	Representing (This is the sort field.)	Vote status	Int. cat.
James Davey	AC Power Distribution Inc.	AC Power Distribution Inc.	P	CP
Greg Mayberry	AC Power Distribution Inc.	AC Power Distribution Inc.	A	CP
Andre Broucke	ADB - TTV Technologies	ADB-TTV Group	O	MP
Kenny Delahoussaye	Aggreko	Aggreko	O	DR
George Long	Aggreko Event Services	Aggreko	O	DR
Brian Merriken	Airpax Corporation	Airpax Corporation	O	MP
Richard L. Eberth Jr.	North Shore Safety	Airpax Corporation	O	MP
Mike Skinner	CBS Studio Center	Alliance of Motion Picture and Television Producers	O	U
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	O	G
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Wolfgang Hofheinz	Bender GmbH & Co. KG	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
Paul Menetrey	Menetrey Partners	Bender GmbH & Co. KG	A	MP
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Marty Lazarus	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	DR
Eric Bouchard	Cirque du Soleil	Cirque du Soleil	O	CP
Julie Rogers	City of Phoenix Civic Plaza	City of Phoenix	O	G
Wayne Kowalski	Coleman Cable Inc.	Coleman Cable Inc.	O	MP
Ford Sellers	Cornell University	Cornell University	O	U
Ron Dahlquist	Dadco	Dadco	O	MP
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	O	DR
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Elizabeth E. (Lizz) Chancellor	Elizabeth Chancellor	Elizabeth Chancellor	I	U
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Committee of Ontario	P	G
Art Wanuch	Robertson Electric Wholesale	Entertainment Electrical Safety Committee of Ontario	O	G
Michael Lay	Strand Lighting	Genlyte Group LLC	P	MP
Trevor Forrest	Helvar Lighting Control	Helvar Lighting Control	O	MP
Pat Miller	Hubbell Wiring Devices	Hubbell Inc.	O	MP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
R. Bruce Prochal	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Patric J. Abaravich	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Keith S. Woods	Lakhri Impressions Ltd.	IATSE Local 891	P	U
Simon Hunt	IATSE Local 891	IATSE Local 891	A	U
Gian Carlo C. Bartolotti	Ibeam SP / Banco de Eventos	Ibeam SP / Banco de Eventos	O	U
Bill Kanne	Illumination Dynamics	Illumination Dynamics	O	U
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	P	CP
David Murray	IPC Resistors Inc.	IPC Resistors Inc.	O	CP
Stephen J. Kay	K-Tec Corporation	K-Tec Corporation	P	MP
Jose J. Flores	Kino Flo, Inc.	Kino Flo, Inc.	O	MP
Don Gray	Kohler Event Services	Kohler Co.	O	U
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	P	MP
Bill Grande	Leviton Manufacturing Co., Inc.	Leviton Manufacturing Co., Inc.	A	MP
Bob Luther	Lex Products Corp.	Lex Products Corp.	P	CP
Reinhold Luther	Lex Products Corp.	Lex Products Corp.	O	CP
Kenneth M. Makowski	Lex Products Corp.	Lex Products Corp.	A	CP
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U
Jim Holladay	Luxence	Luxence	O	G
Jeff deRecat	Marinco/ADI	Marinco	P	MP
Phil Fram	Marinco	Marinco	O	MP
Bud Toly	Marinco/ADI	Marinco	A	MP
William Drake	Marinco	Marinco	A	MP
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Michael Klein	Metropolitan Engineering, Inc.	Metropolitan Engineering, Inc.	O	G
W. G. Krokaugger, P.E.	Mole-Richardson Co.	Mole-Richardson Co.	P	CP
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
Peter Herrmann	Motion Laboratories	Motion Laboratories	A	CP

Name	Company	Representing (This is the sort field.)	Vote status	Int. cat.
Marsha DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
Steve DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
Ron Bonner	PLASA	PLASA	P	U
James Eade	PLASA	PLASA	O	G
Mac Perkins	PNTA Inc.	PNTA Inc.	O	G
Paul F. Mardon	Pulsar Ltd.	Pulsar Ltd.	O	MP
Douglas Franz	QVC Network	QVC Network	O	U
Eric Tishman	Rosco Laboratories	Rosco Laboratories	O	MP
Richard B. Glickman	Gliconen Corporation	Rosco Laboratories	O	MP
Jeremy B. Collins	Selecon	Selecon	O	MP
Richard A. Prey	SMS Inc. / PGS LLC	SMS Inc. / PGS LLC	O	CP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Michael Scudday	SSRC, Inc.	SSRC, Inc.	P	CP
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	P	U
Reuben Goldberg	Technic Services	Technic Services	O	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Brett Paddor	TMB	TMB	P	MP
Colin Waters	TMB	TMB	A	MP
Richard Wolpert	Union Connector Company	Union Connector Company	P	CP
Mitch Hefter	Entertainment Technology (Genlyte Group)	USITT	P	U
Eckart Steffens	SOUNDLIGHT	VPLT	O	G
William L. Maiman	William L. Maiman	William L. Maiman	P	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