

Minutes
Control Protocols Working Group
Saturday, 17 July 2004
Dallas/Ft. Worth Airport Marriott South
Ft. Worth, TX

Chairmen: Steve Terry; Electronic Theatre Controls; A; MP
Tracy Underhill; Electronics Diversified Inc. (Colorado); P; MP

Recording secretary: Karl G. Ruling; ESTA

Members attending: Tim Bachman; A.C.T Lighting, Inc.; P; DR
Wayne David Howell; Artistic Licence (UK) Ltd.; P; CP
Doug Fleenor; Doug Fleenor Design, Inc.; P; MP
Daniel W. Antonuk; Electronic Theatre Controls, Inc.; P; MP
Robert Goddard; Goddard Design Co.; P; MP
Scott M. Blair; High End Systems Inc.; P; MP
Jason Potterf; High End Systems Inc.; A; MP (new company and voting status at this meeting)
Alan Martello; Horizon Control Inc.; P; MP
Robert Bell; Horizon Control Inc.; A; MP
Peter Willis; Howard Eaton Lighting Ltd.; P; CP
Edwin S. Kramer; I.A.T.S.E, Local 1; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
George Kindler; Kelley Technologies LLC; P; DR (new company at this meeting)
Rick Leinen; Colortran (Leviton Manufacturing Co., Inc.); P; MP
John (Javid) D. Butler; Mainstage Theatrical Supply, Inc. (Mainstage Theatrical Supply); P; DR
Daniel Weiermann; Mainstage Theatrical Supply - Milwaukee (Mainstage Theatrical Supply); A; DR
Gary Douglas; Pathway Connectivity Inc.; P; MP
Kevin Loewen; Pathway Connectivity Inc.; A; MP
Charles Reese; Production Resource Group; P; DR (new company at this meeting)
Yngve Sandboe; Sand Network Systems; A; MP
Richard Lawrence; Strand Lighting Ltd.; P; MP
Michael Lay; Strand Lighting (Strand Lighting Ltd.); A; MP
Jerry Gorrell; Theatre Safety Programs; O; G
Brian Dowd; TMB; P; U
Mitch Hefter; Entertainment Technology (Genlyte Thomas Group), representing USITT; P; U
Mark Jensen; Wybron, Inc.; P; MP

Visitors: None

1 Opening remarks

The meeting was called to order at 09:01 by Steve Terry.

2 Attendance

2.1 Introductions of those present and circulation of attendance sheet

Karl G. Ruling explained the attendance sign-in sheet. While it circulated, those in attendance introduced themselves.

2.2 Determination of a quorum (29 voting members: 10 for a quorum, 15 to pass a supermajority vote)

Steve Terry asked for a show of hands of principal voting members. After counting them, he announced that a quorum was present.

2.3 Recognition of alternate voting members

Steve Terry reminded the assembly that only one representative from a company may vote on a motion. That is, many representatives could be present, but only one may vote.

3 Membership

3.1 Requirements for membership

Tracy Underhill reminded those present that working group membership is open to all who are affected by the work of the group. 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.

3.2 Processing of new membership requests

Charles Reese works for VLPS, but this has been acquired by PRG, so he reapplied as PRG's principal representative in the dealer-rental company interest category.

Jean-Francois Canuel and Josh Koffman of Spectrum Manufacturing Inc. (which is owned by AC Lighting Ltd.) applied as voting members in the custom market manufacturing category. Steve Terry noted that neither are present, and our usual practice is to vote in non-attendees as observers, and to entertain a motion to change them to voting status when they attend.

George Kindler applied to represent his new company, Kelley Technologies LLC, in the dealer-rental company category

Jason Potterf, previously with UT Austin, applied to be an alternate for his new employer, High End Systems.

Tim Bachman moved that the above applications be accepted, but with Canuel and Koffman being given observer status. The motion was seconded. The motion was approved by an almost unanimous show of hands. One person voted to abstain.

The voting body during this meeting was thus:

Name	Company	Representing	Voting status	Interest cat.
Tim Bachman	A.C.T Lighting, Inc.	A.C.T Lighting, Inc.	P	DR
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	P	U
Wayne David Howell	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	P	CP
Simon Hobday	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	A	CP
Tobin Neis	Barbizon Companies	Barbizon Companies	P	DR
George Kindler	Pelton Marsh Kinsella	Carter & Burgess, Inc.	R	G
Doug Fleenor	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	P	MP
Milton Davis	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP
Ken Wagner	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP
Tracy Underhill	Electronics Diversified Inc. (Colorado)	Electronics Diversified Inc.	P	MP
James Johnson	Electronics Diversified Inc.	Electronics Diversified Inc.	A	MP
Alfred Langguth	Embedded Controls by Design, LLC	Embedded Controls by Design, LLC	P	MP
Philip Nye	Engineering Arts	Engineering Arts	P	G
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP
Scott M. Blair	High End Systems Inc.	High End Systems Inc.	P	MP
Tom Grimes	High End Systems, Inc.	High End Systems, Inc.	A	MP
Jason Potterf	High End Systems, Inc.	High End Systems, Inc.	A	MP

Name	Company	Representing	Voting status	Interest cat.
Alan Martello	Horizon Control Inc.	Horizon Control Inc.	P	MP
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP
Edwin S. Kramer	I.A.T.S.E, Local 1	I.A.T.S.E. Local 1	P	U
John Huntington	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	A	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Dennis Grow	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Richard Thornton Brown	Zero 88 Ltd.	i Light Group PLC	P	MP
George Kindler	Kelley Technologies LLC	Kelley Technologies LLC	P	DR
Rick Leinen	Colortran	Leviton Manufacturing Co., Inc.	P	MP
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	A	MP
John (Javid) D. Butler	Mainstage Theatrical Supply - South	Mainstage Theatrical Supply	P	DR
Daniel Weiermann	Mainstage Theatrical Supply - South	Mainstage Theatrical Supply	A	DR
Ole Bystrup	Martin Professional A/S	Martin Professional A/S	P	MP
Gary Douglas	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Charles Reese	Production Resource Group	Production Resource Group	P	DR
Hans Lau	Sand Network Systems	Sand Network Systems	P	MP
Michael A. (Sandy) Twose	Sand Network Systems	Sand Network Systems	A	MP
Yngve Sandboe	Sand Network Systems	Sand Network Systems	A	MP
Michael Gonzales	Spectrum Lighting Inc.	Spectrum Lighting Inc.	P	DR
Richard Lawrence	Strand Lighting Ltd.	Strand Lighting Ltd.	P	MP
Michael Lay	Strand Lighting	Strand Lighting Ltd.	A	MP
Brian Dowd	TMB (NJ)	TMB	P	U
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group)	USITT	P	U
Mark Jensen	Wybron, Inc.	Wybron, Inc.	P	MP
		Total voters	28	
		Voters by interest category	2	CP
			14	MP
			6	DR
			1	G
			5	U

4 Approval of the minutes from the previous meeting

Eddie Kramer moved that the minutes of the previous meeting be approved as written. The motion was seconded. The motion was approved by a unanimous show of hands, except for two abstentions.

5 Reading of the call for patents

Tracy Underhill read the following statement aloud to the assembly:

"ESTA intends to publish no standard that contains protected intellectual property, unless that property can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent disclosure to implement this intent. ESTA does not conduct patent searches and does not warrant that its standards contain no protected intellectual property.

"In keeping with the open disclosure policy, I ask if anyone present wishes to notify the working group of the existence of a patent or copyright that might protect material in a standard being developed by the working group. You need not be the holder of the patent or copyright in order to notify the working group of its existence."

No issues were raised by those present.

6 The reading of the anti-trust statement

Tracy Underhill 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 \$100,000 and imprisoned for up to three years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

No issues were raised by any member of the assembly.

7 Approval of agenda

A discussion of patent licensing and the Connectivity Breakfast were proposed for Other Business.

Roger Lattin moved that the agenda, with the above two items included in Other Business, be approved. The motion was seconded. The motion was approved by a unanimous show of hands.

8 Old business

8.1 Reconsideration of E1.11 and IEC — Hefter

Mitch Hefter asked the group if we want to reconsider not sending E1.11 to the IEC, since we were asked to reconsider our position by our national representative. He said that we would have control in resolving comments. There was discussion.

Dan Antonuk moved that we reaffirm our decision of the last meeting to not pursue making E1.11 an IEC standard. The motion died for lack of a second.

The consensus of the group was that Hefter should clarify the original letter to and introduce the idea of the two-year waiting period.

Mitch Hefter reported on the Uldall-Hansen challenge to the acceptance of E1.11 and how it was handled by the TSC.

8.2 BSR E1.20 Remote Device Management

Scott Blair reported that the task group had made some minor changes to the revised draft document. Scott Blair used a projector to go through these most recent changes.

Doug Fleenor moved that the draft standard document that was sent out by email (CP/2003-1003r2, not the newly revised document) be accepted. The motion was seconded. The motion failed with a show of hands.

Peter Willis moved that the working group approve the revised, revised draft standard (CP/2003-1003r2.1) and the comment resolutions (CP/2004-1012). The motion was seconded. The motion was approved by a unanimous show of hands, which constituted a supermajority.

Doug Fleenor moved that the amended draft standard be sent to public review. The motion was seconded. The motion was approved on a roll call ballot, with all present voting in favor.

Name	Company	Representing	Voting status	Int. cat.	Vote
Tim Bachman	A.C.T Lighting, Inc.	A.C.T Lighting, Inc.	P	DR	yes
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	P	U	
Wayne David Howell	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	P	CP	yes
Simon Hobday	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	A	CP	
Tobin Neis	Barbizon Companies	Barbizon Companies	P	DR	
George Kindler	Pelton Marsh Kinsella	Carter & Burgess, Inc.	R	G	
Doug Fleenor	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	P	MP	yes
Milton Davis	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP	
Ken Wagner	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP	
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP	yes
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP	
Tracy Underhill	Electronics Diversified Inc. (Colorado)	Electronics Diversified Inc.	P	MP	yes
James Johnson	Electronics Diversified Inc.	Electronics Diversified Inc.	A	MP	
Alfred Langguth	Embedded Controls by Design, LLC	Embedded Controls by Design, LLC	P	MP	
Philip Nye	Engineering Arts	Engineering Arts	P	G	
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP	yes
Scott M. Blair	High End Systems Inc.	High End Systems Inc.	P	MP	yes
Tom Grimes	High End Systems, Inc.	High End Systems, Inc.	A	MP	
Jason Potterf	High End Systems, Inc.	High End Systems, Inc.	A	MP	
Alan Martello	Horizon Control Inc.	Horizon Control Inc.	P	MP	yes
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP	
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP	yes
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	yes
John Huntington	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	A	U	
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U	yes
Dennis Grow	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U	
Alan M. Rowe	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U	
Richard Thornton Brown	Zero 88 Ltd.	i Light Group PLC	P	MP	
George Kindler	Kelley Technologies LLC	Kelley Technologies LLC	P	DR	yes
Rick Leinen	Colortran	Leviton Manufacturing Co., Inc.	P	MP	yes
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	A	MP	
John (Javid) D. Butler	Mainstage Theatrical Supply - South	Mainstage Theatrical Supply	P	DR	yes
Daniel Weiermann	Mainstage Theatrical Supply - South	Mainstage Theatrical Supply	A	DR	
Ole Bystrup	Martin Professional A/S	Martin Professional A/S	P	MP	
Gary Douglas	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP	yes
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP	
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP	
Charles Reese	Production Resource Group	Production Resource Group	P	DR	yes
Hans Lau	Sand Network Systems	Sand Network Systems	P	MP	
Michael A. (Sandy) Twose	Sand Network Systems	Sand Network Systems	A	MP	
Yngve Sandboe	Sand Network Systems	Sand Network Systems	A	MP	yes
Michael Gonzales	Spectrum Lighting Inc.	Spectrum Lighting Inc.	P	DR	

Name	Company	Representing	Voting status	Int. cat.	Vote
Richard Lawrence	Strand Lighting Ltd.	Strand Lighting Ltd.	P	MP	yes
Michael Lay	Strand Lighting	Strand Lighting Ltd.	A	MP	
Brian Dowd	TMB (NJ)	TMB	P	U	yes
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group)	USITT	P	U	yes
Mark Jensen	Wybron, Inc.	Wybron, Inc.	P	MP	yes

Twenty-one voted yes out of a voting body of 28. The breakdown by interest category is: 11:14 MP, 2:2 CP, 4:6 DR, 4:5 U, and 0:1 G.

8.3 E1.17 Multipurpose Control Network Protocol Suite

Dan Antonuk reported that the transport layer protocol comment draft resolutions are done. He described the reorganization of the document. The definitions and document references have been moved into a separate document. About half the resolutions have been implemented in the draft standard.

Dan Antonuk moved that when the draft resolutions are finished and a draft standards document is ready, that the two be sent to the working group for resolution approval and a new public review vote by letter ballot. This would only be done if the letter ballot process could result in a completed vote before the next meeting. The motion was seconded. The motion was approved by a show of hands of the majority of the working group present, with all voting yes except for two abstentions.

There was discussion of the ACN logos and self-certification.

Dan Antonuk moved that the working group set as a goal developing logos for ACN and RDM to help users identify these products. The motion was seconded. The motion carried by a simple majority show of hands.

There was a discussion of who should officially be the chairman of the E1.17 project. The working group's co-chairs appointed Dan Antonuk as the chairman of the ACN task group, replacing Steve Carlson, who is now an observer member of the working group.

8.4 E1.27-1 Portable cabling

Javid Butler moved that we approve the comment resolutions in CP/2004-2014. The motion was seconded. By show of hands, three voted in favor, and the rest opposed, with three abstentions. The motion failed.

Eddie Kramer moved that we approve the comment resolutions in CP/2004-2014, with the exception of comments 13 and 18. The motion was seconded. By show of hands, all voted in favor except for one abstention and two opposed. The motion carried.

Javid Butler moved that in resolution 13 we change 'Marking of the cable with "ANSI E1.27-1" is recommended.' to 'The cable assembly shall be marked with "ANSI E1.27-1" in a durable manner.' In the resolution to comment 18, a similar change shall be made and the justification for not requiring labeling shall be deleted. The motion was approved by a unanimous show of hands, with no abstentions.

Javid Butler moved that the revised standards document with these changes be sent to public review. The motion was decided by letter ballot, with 19 voting yes out of a voting body of 28. Two people abstained. The votes by interest categories were 10:14 MP, 1:2 CP, 4:6 DR, 4:5 U, and 0:1 G.

Name	Company	Representing	Voting status	Int. cat.	Vote
Tim Bachman	A.C.T Lighting, Inc.	A.C.T Lighting, Inc.	P	DR	yes

Name	Company	Representing	Voting status	Int. cat.	Vote
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	P	U	
Wayne David Howell	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	P	CP	yes
Simon Hobday	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	A	CP	
Tobin Neis	Barbizon Companies	Barbizon Companies	P	DR	
George Kindler	Pelton Marsh Kinsella	Carter & Burgess, Inc.	R	G	
Doug Fleenor	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	P	MP	abstain
Milton Davis	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP	
Ken Wagner	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP	
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP	yes
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP	
Tracy Underhill	Electronics Diversified Inc. (Colorado)	Electronics Diversified Inc.	P	MP	yes
James Johnson	Electronics Diversified Inc.	Electronics Diversified Inc.	A	MP	
Alfred Langguth	Embedded Controls by Design, LLC	Embedded Controls by Design, LLC	P	MP	
Philip Nye	Engineering Arts	Engineering Arts	P	G	
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP	yes
Scott M. Blair	High End Systems Inc.	High End Systems Inc.	P	MP	yes
Tom Grimes	High End Systems, Inc.	High End Systems, Inc.	A	MP	
Jason Potterf	High End Systems, Inc.	High End Systems, Inc.	A	MP	
Alan Martello	Horizon Control Inc.	Horizon Control Inc.	P	MP	yes
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP	
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP	abstain
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	yes
John Huntington	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	A	U	
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U	yes
Dennis Grow	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U	
Alan M. Rowe	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U	
Richard Thornton Brown	Zero 88 Ltd.	i Light Group PLC	P	MP	
George Kindler	Kelley Technologies LLC	Kelley Technologies LLC	P	DR	yes
Rick Leinen	Colortran	Leviton Manufacturing Co., Inc.	P	MP	yes
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	A	MP	
John (Javid) D. Butler	Mainstage Theatrical Supply - South	Mainstage Theatrical Supply	P	DR	yes
Daniel Weiermann	Mainstage Theatrical Supply - South	Mainstage Theatrical Supply	A	DR	
Ole Bystrup	Martin Professional A/S	Martin Professional A/S	P	MP	
Gary Douglas	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP	yes
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP	
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP	
Charles Reese	Production Resource Group	Production Resource Group	P	DR	yes
Hans Lau	Sand Network Systems	Sand Network Systems	P	MP	
Michael A. (Sandy) Twose	Sand Network Systems	Sand Network Systems	A	MP	
Yngve Sandboe	Sand Network Systems	Sand Network Systems	A	MP	yes
Michael Gonzales	Spectrum Lighting Inc.	Spectrum Lighting Inc.	P	DR	
Richard Lawrence	Strand Lighting Ltd.	Strand Lighting Ltd.	P	MP	yes
Michael Lay	Strand Lighting	Strand Lighting Ltd.	A	MP	
Brian Dowd	TMB (NJ)	TMB	P	U	yes

Name	Company	Representing	Voting status	Int. cat.	Vote
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group)	USITT	P	U	yes
Mark Jensen	Wybron, Inc.	Wybron, Inc.	P	MP	yes

8.5 Other E1.27 projects

Javid Butler reported that the permanent cabling project is coming along. He thinks that a draft standard will be ready for a public review vote by ETS.

8.6 Leadership nomination ad hoc committee

Scott Blair reported that the task group has developed a plan. He read it aloud to the working group. It will be circulated to the group for a vote at the next meeting.

There was a discussion. Letter ballot seemed to be the preferred method of voting, with nominations in July and instant run-off with a point system. The results of the vote would be presented to the TSC and the working group at their ETS-LDI meetings, with the recommended new officers to start serving in January.

The current action item for the task group is the amend the document and send it to the working group.

9 New business -- E1.11 Recommended Practice

Tim Bachman reported that a task group to work on this was founded in 2001, but then tabled. He would like to revive it with himself and Peter Willis as the leaders of the project. Bachman and Willis asked for volunteers to work on the RP and asked that the minutes show that people not attending this meeting are welcome to join the effort.

A show of hands was asked to show support for the project. It received strong support.

10 Other business

10.1 Patent Licensing

Ruling reported that he had not yet received letters re-confirming Vari-Lite's or High End System's willingness to license for a reasonable fee and on a non-discriminatory basis any protected intellectual property needed to implement BSR E1.17 or BSR E1.20. The companies had guaranteed this in the past, but both had had either a change of ownership or management since then.

10.2 Connectivity Breakfast

Peter Willis and Dan Antonuk volunteered to develop the two-to-five minute presentation needed to promote the projects at the new products breakfast. Seminar time will be used to talk about ACN, RDM, and DMX512-A in more depth.

11 Schedule for future meetings

Karl Ruling announced that the next working group meeting will be at Harrah's Las Vegas Casino & Hotel in Las Vegas, Nevada, Thursday, 21 October 2004, 09:00 - 13:00. The following task group meetings are scheduled:

BSR E1.17 (ACN) Task Group
 Tuesday, 19 October 2004, 09:00 - 17:00
 Wednesday, 20 October 2004, 09:00 - 17:00

BSR E1.20 (RDM) Task Group
 Monday, 25 October 2004, 09:00 - 18:00
 Tuesday, 26 October 2004, 09:00 - 13:00

BSR E1.27-x (DMX cabling) Task Group
Thursday, 21 October 2004, 13:00 - 18:00

The January TSP meetings will be held at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, Texas, on Friday through Sunday, January 14 through 16, 2005.

12 Changes to observer status due to lack of attendance

None.

13 Adjournment

Mitch Hefter moved that the meeting adjourn. The motion was seconded. The motion was approved by a unanimous show of hands. Steve Terry declared the meeting adjourned at 12:23.

Working Group Membership as of 06 September 2004

Name	Company	Representing	Voting status	Int. cat.
Jean-Francois Canuel	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	O	CP
Josh Koffman	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	O	CP
Tim Bachman	A.C.T Lighting, Inc.	A.C.T Lighting, Inc.	P	DR
Andre Broucke	ADB - TTV Technologies	ADB-TTV Group	O	MP
John Sellers	AIM Northwest	AIM Northwest	O	G
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	P	U
Wayne David Howell	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	P	CP
Simon Hobday	Artistic Licence (UK) Ltd.	Artistic Licence (UK) Ltd.	A	CP
Steve Friedlander	Auerbach Pollock Friedlander	Auerbach Pollock Friedlander	O	U
Raymond Wynn	AVL Systems Pty Ltd.	AVL Systems Pty Ltd.	O	MP
J. B. Toby	Avolites Ltd.	Avolites Ltd.	O	MP
Shahid Anwar	Avolites Ltd.	Avolites Ltd.	O	MP
Richard Salzedo	Avolites Ltd.	Avolites Ltd.	O	MP
Barbara Wohlsen	Barbara Wohlsen	Barbara Wohlsen	O	U
Tobin Neis	Barbizon Companies	Barbizon Companies	P	DR
Bernardo Benito Rico	Ben-Ri Electronica S.A.	Ben-Ri Electronica S.A.	O	MP
Lee J. Bloch	Blue Sky Design, Ltd.	Blue Sky Design, Ltd.	O	G
Soo-Myong Chung	Blue Sky Design, Ltd.	Blue Sky Design, Ltd.	O	G
Bradley Klinkradt	Bradley Klinkradt	Bradley Klinkradt	O	G
Ted Fregon	Bytecraft Pty. Ltd.	Bytecraft Pty. Ltd.	O	MP
Bill Ellis	Candela Controls, Inc.	Candela Controls, Inc.	O	U
Rick Szijarto	Cast Software	Cast Group of Companies, Inc.	O	CP
Marty Lazarus	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	G
Larry Dunn	City Theatrical, Inc.	City Theatrical, Inc.	O	CP
Fabiano Pina	Clay Paky S.P.A.	Clay Paky S.P.A.	O	MP
Woody Smith	Coemar USA Inc.	Coemar USA Inc.	O	MP
Ohad Ashery	Compulite Systems	Compulite Systems	O	MP
Simeon Aladjem	Compulite Systems	Compulite Systems	O	MP
Yehuda Shukram	Compulite Systems	Compulite Systems	O	MP
Dietmar Rottinghaus	Connex GmbH	Connex GmbH	O	G
David Bertenshaw	David Bertenshaw	David Bertenshaw	O	G
Bob Toms	Design Advantage LLC	Design Advantage LLC	O	G
Doug Fleenor	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	P	MP
Milton Davis	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP
Ken Wagner	Doug Fleenor Design, Inc.	Doug Fleenor Design, Inc.	A	MP
Gary Dove	Dove Systems	Dove Systems	O	MP
Jussi Kallioinen	Eastway Sound & Lighting	Eastway Sound & Lighting	O	U
Ed Jones	Edwin Jones Co., Inc.	Edwin Jones Co., Inc.	O	CP
Joost van Eenbergen	ELC Lighting	ELC Lighting	O	MP
Bill Fehrmann	Electrol Engineering, Inc.	Electrol Engineering, Inc.	O	MP
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	MP
Adam Bennette	Electronic Theatre Controls Ltd.	Electronic Theatre Controls, Inc.	O	MP
Hans Leiter	Transtechnik Lichtsysteme GmbH & Co. KG	Electronic Theatre Controls, Inc.	O	MP
Anders Ekvall	Transtechnik Lichtsysteme GmbH	Electronic Theatre Controls, Inc.	O	MP
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP
Tracy Underhill	Electronics Diversified Inc. (Colorado)	Electronics Diversified Inc.	P	MP
James Johnson	Electronics Diversified Inc.	Electronics Diversified Inc.	A	MP
Alfred Langguth	Embedded Controls by Design, LLC	Embedded Controls by Design, LLC	P	MP
Philip Nye	Engineering Arts	Engineering Arts	P	G
Erwin Rol	Erwin Rol	Erwin Rol	O	G

Name	Company	Representing	Voting status	Int. cat.
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP
Sierk Janszen	Ground Zero	Ground Zero	O	U
Liao Wei Min	GuangZhou HeDong Electronic Co., Ltd.	GuangZhou HeDong Electronic Co., Ltd.	O	G
Alan P. Symonds	Harvard College	Harvard University	O	U
Trevor Forrest	Helvar Lighting Control	Helvar Lighting Control	O	MP
Bill Hewlett	Hewlett Electronics	Hewlett Electronics	O	CP
Scott M. Blair	High End Systems Inc.	High End Systems Inc.	P	MP
Tom Grimes	High End Systems, Inc.	High End Systems, Inc.	A	MP
Jason Potterf	High End Systems Inc.	High End Systems Inc.	A	MP
Steve Carlson	High Speed Design, Inc.	High Speed Design, Inc.	O	MP
Alan Martello	Horizon Control Inc.	Horizon Control Inc.	P	MP
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
John Huntington	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	A	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Dennis Grow	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Richard Thornton Brown	Zero 88 Ltd.	i Light Group PLC	P	MP
Gian Carlo C. Bartolotti	Ibeam SP / Banco de Eventos	Ibeam SP / Banco de Eventos	O	U
Geoffrey O. Thompson	Nortel Networks, Inc.	IEEE 802.3/Nortel Networks	O	G
Rob Johnston	Interactive Technologies, Inc.	Interactive Technologies, Inc.	O	MP
Larry Schoeneman	Interesting Products, Inc.	Interesting Products, Inc.	O	G
David Timmins	Jands Electronics	Jands Electronics	O	MP
Helge Hoffmann	JB Lighting	JB Lighting	O	MP
Edward Paget	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
Christopher Purpura	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
George Kindler	Kelley Technologies LLC	Kelley Technologies LLC	P	DR
John Mehlretter	Lehigh Electric Products Co.	Lehigh Electric Products Co.	O	MP
Mark T. Kraft	Lehigh Electric Products Co.	Lehigh Electric Products Co.	O	MP
Rick Leinen	Colortran	Leviton Manufacturing Co., Inc.	P	MP
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	A	MP
Klaus Amling	Licht-Technik	Licht-Technik	O	P
Andrew Sherar	Lightmoves PLC	Lightmoves PLC	O	MP
Simon Alpert	Lighttech Event Technologies	Lighttech Event Technologies	O	CP
Gary Pritchard	LSC Lighting Systems PTY Ltd	LSC Lighting Systems PTY Ltd	O	MP
Bart Swinnen	Luminex LCE	Luminex LCE	O	MP
J. P. Steiner	Lutron Electronics	Lutron Electronics	O	MP
Jim Holladay	Luxence	Luxence	O	G
John (Javid) D. Butler	Mainstage Theatrical Supply, Inc.	Mainstage Theatrical Supply	P	DR
Daniel Weiermann	Mainstage Theatrical Supply - Milwaukee	Mainstage Theatrical Supply	A	DR
Ole Bystrup	Martin Professional A/S	Martin Professional A/S	P	MP
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Petri Laine	Obelux Oy	Obelux Oy	O	CP
Edward R. Condit	On Location Lighting Systems	On Location Lighting Systems	O	DR
Stuart Cotts	Oregon Shakespeare Festival	Oregon Shakespeare Festival	O	U
David A. Boller	Organic Machines LLC	Organic Machines LLC	O	CP
William Benner	Pangolin Laser Systems	Pangolin Laser Systems	O	MP
Gary Douglas	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP

Name	Company	Representing	Voting status	Int. cat.
James Eade	PLASA	PLASA	O	G
Mac Perkins	PNTA Inc.	PNTA Inc.	O	G
Charles Reese	Production Resource Group	Production Resource Group	P	DR
Paul F. Mardon	Pulsar Ltd.	Pulsar Ltd.	O	MP
Steve Unwin	Pulsar Ltd.	Pulsar Ltd.	O	MP
Stephen J. Tyrrell	Quantum Logic	Quantum Logic	O	MP
Douglas Franz	QVC Network	QVC Network	O	U
Charlie Richmond	Richmond Sound Design Ltd.	Richmond Sound Design Ltd.	O	CP
Martin Farnik	Robe Show Lighting s.r.o.	Robe Show Lighting s.r.o.	O	MP
Hans Lau	Sand Network Systems	Sand Network Systems	P	MP
Michael A. (Sandy) Twose	Sand Network Systems	Sand Network Systems	A	MP
Yngve Sandboe	Sand Network Systems	Sand Network Systems	A	MP
Kenneth Mockler	Sceno Plus	Sceno Plus	O	U
Mick Martin	ShowCAD Control Systems	ShowCAD Control Systems	O	MP
Loren Wilton	Showman Systems	Showman Systems	O	CP
Jon R. Farley	Sixteenth Avenue Systems	Sixteenth Avenue Systems	O	CP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	U
Michael Gonzales	Spectrum Lighting Inc.	Spectrum Lighting Inc.	P	DR
Ujjal Kar	Standard Robotics & Lighting	Standard Robotics & Lighting	O	G
Richard Lawrence	Strand Lighting Ltd.	Strand Lighting Ltd.	P	MP
Michael Lay	Strand Lighting	Strand Lighting Ltd.	A	MP
Paul K. Ericson	Syska Hennessy Group Lighting Design	Syska Hennessy Group Lighting Design	O	U
Stephen Bickford	T. Kondos Associates	T. Kondos Associates	O	U
Tad Trylski	Tad Trylski	Tad Trylski	O	U
Klas Dalbjorn	Labgruppen AB	TC Group	O	MP
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	O	G
Colin Waters	TMB	TMB	O	U
Matt Stroud	University of Texas at Austin	University of Texas at Austin	O	G
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group)	USITT	P	U
Torrey Bievenour	Vision Quest Lighting	Vision Quest Lighting	O	G
Eckart Steffens	SOUNDLIGHT	VPLT	O	G
Eric Cornwell	West Side Systems	West Side Systems	O	U
John Sondericker III	Wybron, Inc.	Wybron, Inc.	O	MP

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