

Minutes
Control Protocols Working Group

Saturday, 15 January 2005
Dallas/Ft. Worth Airport Marriott South
Ft. Worth, TX

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

Recording secretary: Karl G. Ruling; ESTA

Members attending: Jean-Francois Canuel; Spectrum Manufacturing Inc. (A.C. Lighting Ltd.); O; CP
Tim Bachman; A.C.T Lighting, Inc.; P; DR
Arnold Tang; Arnold Tang Productions; P; U
Wayne David Howell; Artistic Licence (UK) Ltd.; P; CP
Tobin Neis; Barbizon Companies; P; DR
Doug Fleenor; Doug Fleenor Design, Inc.; P; MP
Daniel W. Antonuk; Electronic Theatre Controls, Inc.; P; MP
Philip Nye; Engineering Arts; P; G
Robert Goddard; Goddard Design Co.; P; MP (part of the time)
Scott M. Blair; High End Systems Inc.; P; MP
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
Rick Leinen; Colortran (Leviton Manufacturing Co., Inc.); P; MP
John (Javid) D. Butler; Mainstage Theatrical Supply, Inc.; P; DR
Stuart Cotts; Oregon Shakespeare Festival; O; U
Dave Higgins; Pathway Connectivity Inc.; A; MP
Nic Bowker; PLASA; P; G (joined at this meeting)
Richard Thornton Brown; i Light Group (Polaron PLC); P; MP
Charles Reese; Production Resource Group; P; DR
Richard Lawrence; Strand Lighting Ltd.; P; MP
Michael Lay; Strand Lighting (Strand Lighting Ltd.); A; MP
Mitch Hefter; Entertainment Technology (Genlyte Group), representing USITT; P;
U

Visitor: Ian Foulds; IATSE Local 873

1 Opening remarks

Steve Terry called the meeting to order at 09:00.

2 Attendance

2.1 Introductions of those present and circulation of attendance sheet

A multi-hued green attendance sign-in sheet was circulated. As it was, those present introduced themselves

2.2 Determination of a quorum

Steve Terry asked voting members to raise their hands. From the number of hands raised, Terry judged that a quorum was present and announced that the assembly could conduct working group business.

2.3 Recognition of alternate voting members

Steve Terry reminded those present that only one vote is allowed per company or voting entity. Therefore, alternates may not vote on an issue if their principal is voting.

3 Membership

3.1 Requirements for membership

Terry reminded those present that 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

Steve Terry read the applications aloud. The following people had applied for membership:

Nick Bowker applied as the principal for PLASA in the general interest category.

François Mondié applied as an observer for Robert Juliat in the mass-market producer category.

Eddie Kramer moved that the applications be accepted. The motion was seconded. The motion was approved with a unanimous show of hands.

The consensus body during this meeting, including those not present, was:

Name	Company	Representing (This is the sort field.)	Voting status	Int. 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
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.	Electronics Diversified Inc.	P	MP
James Johnson	Electronics Diversified Inc.	Electronics Diversified Inc.	A	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
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
Mark Jensen	Intelligent Control Devices	Intelligent Control Devices	P	CP
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, 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	G
Gary Douglas	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Nic Bowker	PLASA	PLASA	P	G
Richard Thornton Brown	i Light Group	Polaron PLC	P	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
Stéphane Jacob	TIR Systems Ltd.	TIR Systems Ltd.	P	MP
Mitch Hefter	Entertainment Technology (Genlyte Group)	USITT	P	U
		Total votes possible	28	
		Votes by interest category	12	MP
			3	C
			6	DR
			4	U
			3	G

4 Approval of the minutes from the previous meeting

Javid Butler moved that the minutes of the previous meeting be approved as written. The motion was seconded and then approved with a unanimous show of hands

5 Reading of the call for patents

The following statement was read aloud to the assembly by Tracy Underhill

"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 brought to the attention of the assembly.

6 The reading of the anti-trust statement

The following statement was read aloud to the assembly by Tracy Underhill

"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."

Karl Ruling held up a couple of copies of the pamphlet. No restraint of trade issues were brought to the attention of the assembly.

7 Approval of agenda

Roger Lattin moved that the agenda be accepted as written. The motion was seconded and then approved by a unanimous show of hands.

8 Old business

8.1 BSR E1.20 Remote Device Management

Scott Blair reported that the public review closed the first week of December and that 233 comments had been received. None of them suggest problems that are show-stoppers, but the great number of comments is daunting. Blair expressed concern about the time it will take to get the standard finished. He observed that the potential market value of RDM diminishes the longer it is held from the market.

Steve Terry asked if substantive changes are likely to be made to the document as a result of resolving the comments. Scott Blair said he thought there would be substantive changes.

There was extensive discussion of the timing of the working group and TSC meetings and how the meeting schedule is perceived to slow the standards development process. Steve Terry reported that the TSC considered moving the TSC meeting time, but concluded that moving it would create as many or more problems than it would solve. The discussion also included the voting procedures for moving a document forward.

8.3 BSR E1.17 Multipurpose Control Network Protocol Suite

Dan Antonuk reported that the TSC had voted to offer the revised standard documents to public review.

After the recirculation of the letter ballot to accept the resolutions and to offer the revised suite of standards documents for public review, there were 24 "yes" votes, one "yes with comments" (with a mildly supportive statement), two "no with reasons," and one "abstain with reasons." No one changed his vote as a result of the recirculation.

Ruling asked for some resolution of the negative reasons, in line with his understanding of the P&P. [Clauses 14.3.1.1 and 14.4.2] This led to a discussion in which some said that the absolute rejection of the reasons was response enough and Dan Antonuk expressed his intention to address the reasons in the task group's proposed resolutions for the comments to come in the next public review. No motions were offered that were seconded and taken to a vote. Ruling shall notify the objectors in writing of the lack of resolution to their comments and their right to appeal. Both were present at the meeting and at least one participated in the discussion.

8.4 BSR E1.27-1 Portable cabling

Javid Butler reported that half of the public review comments had been resolved to the task group's satisfaction. Some of the comments argued for allowing single-pair data cables, so Butler asked for the group's sentiments on writing a standard for single-pair cable. A majority of the working group indicated that they were in favor of this.

Javid Butler moved that the DMX cabling task group shall be allowed to write a standard for portable cabling with a single data-pair that is clearly marked. The motion was seconded. By a show of hands, five were opposed and 15 were in favor, with a chairman abstaining. (The other chairman is an alternate and may not vote when his principal is voting.) Bob Goddard had left the meeting room, so 21 voting members were present. The motion was accepted by a supermajority of the working group. (The total voting body was 28, including those not present at the meeting.)

There were two ways to implement the motion to write a single data-pair standard, explained Javid Butler. One way would be to modify BSR E1.27-1 to include single-pair; the other way would be to have a separate standard.

Javid Butler moved that the cabling task group shall write a new standard designated BSR E1.27-4 for single-pair data cable. The motion was seconded. By a show of hands, the motion was rejected by a clear supermajority.

Javid Butler moved that the cabling task group shall be directed to include in BSR E1.27-1 single-pair cable that is clearly marked. By a show of hands, three were opposed and 17 were in favor. One of the chairmen abstained. Bob Goddard was not present, so there were 21 voters in the room. The motion was accepted by a supermajority of the working group.

The working group discussed how to expedite the next public review of BSR E1.27-1.

Javid Butler moved that, when the resolutions for the last public review of E1.27-1 are done and the document revised to the satisfaction of the task group, a letter ballot be sent for the working group to approve the resolutions and the initiation of another public review. The motion was seconded. The motion was approved by a unanimous show of hands

8.5 Other E1.27 projects

Butler reported that, in regard to BSR E1.27-2, the task group is concerned whether the tests done on Cat 5 can be extended to Cat 5e and Cat 6. The minutes of the previous meeting were reviewed and the recommendation of Steve Carlson in regard to 5e in which he said that Cat 5e cable is in every respect superior to Cat 5 and its use should be encouraged. Furthermore, what constitutes good practice for using Cat 5 would be equally applicable to Cat 5e. The group discussed the advisability of doing additional testing with 5e and 6 or getting some other assurance from a credible source. We want to make reliable recommendations and we cannot continue to recommend Cat 5 because Cat 5 is becoming rare.

Dave Higgins said he would do some preliminary research on this by asking for technical information from the cable manufacturers.

There was extensive discussion of what kind of information might be needed to make a determination if a cable is suitable for DMX512 signals. There was also discussion of how the cable recommendations could be updated in a timely manner as data cable available on the market continues to change.

8.6 E1.11 Recommended Practice

Tim Bachman reported that work continues on a first draft. He plans to have a complete draft to circulate within the task group this month.

Mitch Hefter mentioned the DMX512-A FAQ he intends to post on the USITT website. It should be live in a week or so.

Bob Goddard returned to the meeting.

9 New business

None.

10 Other business

None.

11 Schedule for future meetings

Steve Terry announced that the next meeting is scheduled for Thursday, 17 March 2005, from 09:00 to 18:00 at the Fairmont Royal York Hotel in Toronto, ON.

The Summer TSP meetings will be held the last weekend of July 2005 at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, Texas. The schedule is posted on the ESTA website.

12 Changes to observer status due to lack of attendance

Voting principals and alternates who together have missed the previous two meetings in a row and will be moved to observer status if this meeting also is missed:

Michael Gonzales; Spectrum Lighting Inc.

Steve Terry noted that Michael Gonzales was not present and had now not fulfilled the minimum attendance requirements for a voting member. He was now an observer.

13 Adjournment

Tim Bachman moved that we adjourn. The motion was seconded. The motion was accepted with a unanimous show of hands. Steve Terry declared the meeting adjourned at 11:15.

Working Group Membership and Contact Information as of 2005-01-28

Name	Company	Representing (This is the sort field.)	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
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
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
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
Bill Ellis	Candela Controls, Inc.	Candela Controls, Inc.	O	U
Will Wagner	Carallon Ltd.	Carallon Ltd.	O	MP
Steve Roberts	Carr & Angier	Carr & Angier	O	G
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
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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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
Philip Nye	Engineering Arts	Engineering Arts	P	G
Erwin Rol	Erwin Rol	Erwin Rol	O	G
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
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
Mark Jensen	Intelligent Control Devices	Intelligent Control Devices	P	CP
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
Lars Wernlund	Lewlight	Lewlight	O	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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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	G
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Paul McEwan	Northern Light	Northern Light	O	DR
Petri Laine	Obelux Oy	Obelux Oy	O	CP
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
Greg Reimer	Pathway Connectivity Inc.	Pathway Connectivity Inc.	O	MP
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Nic Bowker	PLASA	PLASA	P	G
James Eade	PLASA	PLASA	O	G
Mac Perkins	PNTA Inc.	PNTA Inc.	O	G
Richard Thornton Brown	i Light Group	Polaron PLC	P	MP
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
Mondie François	Robert Juliat	Robert Juliat	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.	O	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
Pete Baselici	The Watt Stopper	The Watt Stopper	O	MP
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	O	G
Stéphane Jacob	TIR Systems Ltd.	TIR Systems Ltd.	P	MP
Colin Waters	TMB	TMB	O	U
Matt Stroud	University of Texas at Austin	University of Texas at Austin	O	G

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Mitch Hefter	Entertainment Technology (Genlyte 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

Woody Smith was removed from the list since the last meeting because he is no longer with Coemar USA. He had been an observer in the MP interest category.

Rick Szijarto of Cast Software was also removed because he is no longer with that company. He had been an observer in the MP category.