

Minutes Control Protocols Working Group

Thursday, 19 October 2006
Las Vegas Hilton
Las Vegas, NV

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.); P; CP
Arnold Tang; Arnold Tang Productions; P; U
Tobin Neis; Barbizon Companies; P; DR
Bill Ellis; Candela Controls, Inc.; O; U
Milton Davis; Doug Flenor Design, Inc.; A; MP
Gary Dove; Dove Systems; O; MP
Daniel W. Antonuk; Electronic Theatre Controls, Inc.; P; MP
Philip Nye; Engineering Arts; P; G
Michael Lay; Strand Lighting (Genlyte Group LLC); P; MP
Scott M. Blair; High End Systems Inc.; P; MP
Alan Martello; Horizon Control Inc.; P; MP
John Huntington; City Tech, Ent Tech Department, representing I.A.T.S.E. Local 1; A; U
Roger Lattin; I.A.T.S.E .Local 728; P; U
John (Javid) D. Butler; Integrated Theatre, Inc.; P; CP
Rick Leinen; Colortran (Leviton Manufacturing Co., Inc.); P; MP
Torben Kaas Rasmussen; Martin Professional A/S; P; G
Flemming Jensen; Martin Professional A/S; A; G
Stuart Cotts; Oregon Shakespeare Festival; O; U
Kevin Loewen; Pathway Connectivity Inc.; A; MP
Nic Bowker; PLASA; P; G
Charles Reese; Production Resource Group; P; DR
Yngve Sandboe; Sand Network Systems; A; MP
Kimberly Corbett; Schuler Shook; P; G
Mitch Hefter; Entertainment Technology (Genlyte Group), representing USITT; P; U

Visitors: None.

1 Opening remarks

The meeting was called to order by Steve Terry at 9:00.

2 Attendance

2.1 Introductions of those present and circulation of attendance sheet

A red attendance sign-in sheet was circulated while those present introduced themselves to the assembly.

2.2 Determination of a quorum

Terry asked of a show of hands of the voting members present. Terry announced that we have a quorum.

2.3 Recognition of alternate voting members

Terry asked who was present as an alternate who would be voting in place of the principal. He reminded them that only one person could vote on a question for a company. If two voters are present, one must not vote.

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. People and companies that would be in the general interest, users, and dealer/rental companies interest categories are at this time particularly encouraged to apply for membership. 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

Dirk Beiner of e:cue GmbH had applied as a principal voter in the mass-market interest category. He was not present at the meeting. Mitch Hefter moved that Beiner's application be accepted, but that he be given observer voting status, since meeting attendance is one of the duties of a voter, and he was not present. The motion was seconded. The motion was approved by a unanimous show of hands.

Jean-Francois Canuel with Spectrum Manufacturing, an observer in the working group, asked to be given principal voting status. Javid Butler moved that Canuel's status be changed to principal. The motion was seconded. The motion was approved by 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.
Jean-Francois Canuel	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	P	CP
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
Ralph Weber	ENDL Texas	ENDL Texas	P	G
Philip Nye	Engineering Arts	Engineering Arts	P	G
Michael Lay	Strand Lighting	Genlyte Group LLC	P	MP
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	City Tech, Ent Tech Department	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	IATSE Local 728	I.A.T.S.E. Local 728	A	U

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	P	CP
Michael (Mike) Whetstone	Integrated Theatre, Inc.	Integrated Theatre, Inc.	A	CP
Rick Leinen	Colortran	Leviton Manufacturing Co., Inc.	P	MP
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	A	MP
Torben Kaas Rasmussen	Martin Professional A/S	Martin Professional A/S	P	G
Flemming Jensen	Martin Professional A/S	Martin Professional A/S	A	G
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
Nic Bowker	PLASA	PLASA	P	G
Charles Reese	Production Resource Group	Production Resource Group	P	DR
Hans Lau	Sand Network Systems	Sand Network Systems	P	MP
Yngve Sandboe	Sand Network Systems	Sand Network Systems	A	MP
Kimberly Corbett	Schuler Shook	Schuler Shook	P	G
Mitch Hefter	Entertainment Technology (Genlyte Group)	USITT	P	U
John Sondericker III	Wybron, Inc.	Wybron, Inc.	P	MP
		Total votes	26	
		Votes by interest category	11	MP
			4	CP
			2	DR
			4	U
			5	G

4 Approval of the minutes from the previous meeting
CP/2006-1013, see file CPmin07-2006.pdf.

Roger Lattin moved that the draft minutes of the previous meeting be approved. 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 by Tracy Underhill:

"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."

Terry said that there has been activity in the PRG portfolio and there has been work on the transmission of MIDI over Ethernet. He asked Charles Reese to solicit a letter from asking if the use of the protected intellectual property would be licensed on a non-discriminatory basis. (The working group does not currently have a project for transmitting MIDI over Ethernet, but it would be helpful to know that there would not be a bar to that.)

6 The reading of the anti-trust statement

The following statement was read aloud 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 \$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."

7 Approval of agenda (CP/2006-1019)

Mitch Hefter moved that the draft agenda be approved. The motion was seconded and then approved by a unanimous show of hands.

8 Old business

8.1 Reaffirmation of ANSI E1.3-2001

Karl Ruling reported that ANSI had approved the reaffirmation on Friday the 13th of October.

8.2 E1.11/DMX512-A Recommended Practice

Nic Bowker reported for Peter Willis. The original Adam Bennette document has been disseminated to the task group and comments were received, but he has not yet assimilated the information gathered into a new document.

8.3 ANSI E1.11 auf Deutsch

Ruling reported that he's seen a manuscript of the translated text at PLASA. He checked what parts of the translation he was particularly concerned about, and they were okay. He did not check all of it, since his German is too weak to do that in any reasonable length of time.

The next step in the process is for VPLT to merge the German text with the English and the figures, so the English and German can be side-by-side.

8.4 ANSI E1.20-2006, Remote Device Management

Scott Blair reported that RDM is being implemented in the field. There is a glitch in the discover method that can give erroneous results in some cases, but it can be worked around.

8.5 E1.17 Multipurpose Control Network Protocol Suite

It has been submitted to ANSI. There was a discussion of how long approval might take and how it shall be published. [The email from ANSI announcing the approval was sent shortly after this meeting.]

Terry said that Shure is quite interested in ACN and are interested in hooking AES standards into it.

8.6 E1.27-X, cabling

8.6.1 ANSI E1.27-1-2006 portable cabling

It's published.

8.6.2 First public review of E1.27-2

There was a discussion of the current public review not being a proper ANSI review because Karl Ruling had filed the Project Initiation Notification System form for the project improperly. The second public review can be the proper ANSI review, or this one can be extended to cover the ANSI review period, if that review follows on right after the project announcement. The consensus of the group was to do whatever would be the simplest.

8.7 BSR E1.30, Application level equipment interoperability for control of commonly encountered entertainment technology devices using E1.17

Dan Antonuk reported that progress is slower than desired. He said that the project is to develop standard footprints for controlling common parameters. This would make it easier for automated luminaire manufacturers to describe how their equipment is controlled.

Antonuk said that there is some open source work being done for ACN. This is not ESTA sponsored, but he invited people to become involved.

8.8 BSR E1.31, Lightweight streaming protocol for transport of DMX512 using ACN

Steve Terry said TSC had preapproved the public review, contingent on the CPWG approving it.

Dan Antonuk moved that BSR E1.31, Entertainment Technology — DSP — DMX512-A Streaming Protocol (file name E1-31R0-2.pdf) be offered for public review. The motion was seconded. There was discussion. The question will be decided by letter ballot.

8.9 BSR E1.33-200x, Extensions to E1.31 (DMX512 Streaming Protocol) for Transport of ANSI E1.20 (RDM)

Charles Reese said hadn't started working on this yet.

8.10 BSR E1.37-200x—Additional Message Sets for ANSI E1.20, Remote Device Management

Scott Blair reported that progress is being made, and that the task group will continue work on Monday, 23 October. They have found that they have gotten too clever and have had to back up to simplify the additional message sets.

9 New business

None.

10 Other business

None.

11 Schedule for future meetings

It was announced that the next meeting is scheduled for Saturday, 20 January 2007, from 09:00 to 13:00, at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, TX.

12 Changes to observer status due to lack of attendance

Flemming Jensen and Torben Kaas Rasmussen of Martin Professional were present, so no change of voting status due to lack of attendance was warranted for them.

John Sondericker III of Wybron was absent and had now missed three consecutive meetings. Terry announced that Sondericker is now no longer a voting member, having failed to meet the minimum attendance requirements for voting members.

13 Adjournment

Javid Butler moved that the meeting adjourn. The motion was seconded and then approved by acclamation. Steve Terry declared the meeting adjourned at 09:45.

Working Group Members and Contact Information as of 1 November 2006

Name	Company	Representing (This is the sort field.)	Vote status	Int. cat.
Jean-Francois Canuel	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	P	CP
Tim Bachman	A.C.T Lighting, Inc.	A.C.T Lighting, Inc.	O	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	Bloch Design Group, Inc.	Bloch Design Group, Inc.	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
Bob Toms	Catalyst Microsystems LLC	Catalyst Microsystems LLC	O	G
Marty Lazarus	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	G
Chuck Seifried	Phoenix Civic Plaza	City of Phoenix	O	U
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
Larry Schoeneman	Designlab Chicago, Inc.	Designlab Chicago, Inc.	O	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
Gary Dove	Dove Systems	Dove Systems	O	MP
Jerry Durand	Durand Interstellar, Inc.	Durand Interstellar, Inc.	O	CP
Dirk Beiner	e:cue GmbH & Co. KG	e:cue GmbH & Co. KG	O	MP
Jussi Kallioinen	Eastway Sound & Lighting	Eastway Sound & Lighting	O	U
Edward R. Condit	Edward R. Condit	Edward R. Condit	O	G
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	ETC GmbH	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

Name	Company	Representing (This is the sort field.)	Vote status	Int. cat.
Tracy Underhill	Electronics Diversified Inc.	Electronics Diversified Inc.	P	MP
Ralph Weber	ENDL Texas	ENDL Texas	P	G
Philip Nye	Engineering Arts	Engineering Arts	P	G
Erwin Rol	Erwin Rol	Erwin Rol	O	G
Michael Lay	Strand Lighting	Genlyte Group LLC	P	MP
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
Paul J. Clark	Hacek Design Ltd.	Hacek Design Ltd.	O	CP
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	City Tech, Ent Tech Department	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	IATSE 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
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	P	CP
Michael (Mike) Whetstone	Integrated Theatre, Inc.	Integrated Theatre, Inc.	A	CP
Mark Jensen	Intelligent Control Devices	Intelligent Control Devices	O	CP
Rob Johnston	Interactive Technologies, Inc.	Interactive Technologies, Inc.	O	MP
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
Lawrence Neal	Lawrence Neal	Lawrence Neal	O	CP
John Mehtretter	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
Avraham Mendall Mor "Avi"	Lightswitch	Lightswitch	O	U
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.)	Vote status	Int. cat.
Daniel Weiermann	Mainstage Theatrical Supply - Milwaukee	Mainstage Theatrical Supply	O	DR
Torben Kaas Rasmussen	Martin Professional A/S	Martin Professional A/S	P	G
Flemming Jensen	Martin Professional A/S	Martin Professional A/S	A	G
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
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
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
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
Sean Harding	Rhode Island College	Rhode Island College	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
Yngve Sandboe	Sand Network Systems	Sand Network Systems	A	MP
Kenneth Mockler	Sceno Plus	Sceno Plus	O	U
Kimberly Corbett	Schuler Shook	Schuler Shook	P	G
Mick Martin	ShowCAD Control Systems	ShowCAD Control Systems	O	MP
Loren Wilton	Showman Systems	Showman Systems	O	CP
Mark Manthei	Shure Inc.	Shure Inc.	O	G
Kehang Wu	Shure Inc.	Shure Inc.	O	G
Yelena Akhramkov	Shure Inc.	Shure Inc.	O	G
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
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
Colin Waters	TMB	TMB	O	U
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

Name	Company	Representing (This is the sort field.)	Vote status	Int. cat.
Paul Kenneth McEwan	Zero 88 Lighting Limited	Zero 88 Lighting Ltd.	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