

# Minutes Control Protocols Working Group

Saturday, 17 January 2004  
Dallas/Ft. Worth Airport Marriott South  
Ft. Worth, TX

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

**Recording secretary:** Karl G. Ruling; ESTA

**Members attending:** Tobin Neis; Barbizon Companies; P; DR  
Doug Fleenor; Doug Fleenor Design, Inc.; P; MP  
Milton Davis; Doug Fleenor Design, Inc.; A; MP  
Daniel W. Antonuk; Electronic Theatre Controls, Inc.; P; MP  
Alfred Langguth; Embedded Controls by Design, LLC; P; MP  
Philip Nye; Engineering Arts; P; G  
Robert Goddard; Goddard Design Co.; P; MP  
Tom Grimes; High End Systems, Inc.; P; MP  
Robert Bell; Horizon Control Inc.; A; MP  
Peter Willis; Howard Eaton Lighting Ltd.; P; CP  
Roger Lattin; I.A.T.S.E. Local 728; P; U  
Rick Leinen; Colortran; (Leviton Manufacturing Co., Inc.); P; MP  
William L. Maiman; Lex Products Corp.; O; MP (joined at this meeting)  
Scott M. Blair; LiteSpeed Design; P; G  
Edward R. Condit; On Location Lighting Systems; O; DR  
Stuart Cotts; Oregon Shakespeare Festival; O; U  
Gary Douglas; Pathway Connectivity Inc.; P; MP  
Kevin Loewen; Pathway Connectivity Inc.; A; MP  
James Eade; PLASA; P; G  
Hans Lau; Sand Network Systems; P; MP  
Richard Lawrence; Strand Lighting Ltd.; P; MP  
Matt Stroud; University of Texas at Austin; O; G  
Jason Potterf; University of Texas at Austin; O; G  
Mitch Hefter; Entertainment Technology (Genlyte Thomas Group); representing  
USITT; P; U  
Charles Reese; VLPS; P; MP  
Mark Jensen; Wybron, Inc.; P; 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

There were no visitors.

## 1 Opening remarks

Steve Terry called the meeting to order at 9:00. He reported that Steve Carlson had resigned as co-chairman because of his business workload. The Technical Standards Committee had appointed Tracy Underhill as the new co-chairman, subject to approval by the working group.

## 2 Attendance

### 2.1 Introductions of those present and circulation of attendance sheet

A screaming lime-green attendance sign-in sheet was circulated. While it was circulated, those present introduced themselves.

## 2.2 Determination of a quorum

Steve Terry asked for a show of hands of principal voting members. He announced that a quorum was present.

## 2.3 Recognition of alternate voting members

Terry reminded alternates present with a principal that only the principal may vote, unless the principal defers to the alternate. An organization or company only may cast one vote on a question, no matter how many delegates are present.

## 3 Introduction and confirmation of new working group co-chairman

Mitch Hefter moved that Tracy Underhill be approved as the working group's co-chairman. The motion was seconded. The motion was approved by a unanimous show of hands, with no opposition, no abstentions, and applause at the end of the vote.

## 4 Membership

### 4.1 Requirements for membership

Steve Terry reminded the assembly that membership in the working group 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.

### 4.2 Processing of new membership requests

Terry announced that the following people had applied for membership:

Larry Dunn of City Theatrical applied for observer membership in the custom-market producer interest category

William Maiman of Lex Products applied for observer membership in the mass-market producer interest category

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

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

Name	Company	Representing	Voting status	Interest category
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.	P	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
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP
Daniel W. Antonuk	Electronic Theatre Controls, Inc.	Electronic Theatre Controls, Inc.	P	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
Tom Grimes	High End Systems, Inc.	High End Systems, Inc.	P	MP
William Wagner	Flying Pig Systems	High End Systems Inc.	A	MP
Steve Carlson	High Speed Design, Inc.	High Speed Design, Inc.	P	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
John Huntington	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	A	U
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
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
Rick Leinen	Colortran	Leviton Manufacturing Co., Inc.	P	MP
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	A	MP
Tim Bachman	Leviton/Colortran	Leviton Manufacturing Co., Inc.	A	MP
Scott M. Blair	LiteSpeed Design	LiteSpeed Design	P	G
John (Javid) D. Butler	Mainstage Theatrical Supply - South	Mainstage Theatrical Supply	P	DR
Ole Bystrup	Martin Professional A/S	Martin Professional A/S	P	MP
Dave Higgins	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Gary Douglas	Pathway Connectivity Inc.	Pathway Connectivity Inc.	P	MP
Kevin Loewen	Pathway Connectivity Inc.	Pathway Connectivity Inc.	A	MP
Tony Douglas-Beveridge	PLASA	PLASA	A	G
James Eade	PLASA	PLASA	P	G
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
Charles Reese	VLPS	VLPS	P	MP
Mark Jensen	Wybron, Inc.	Wybron, Inc.	P	MP

There were 30 voters in the following interest categories:

- 16 MP (mass-market producer)
- 2 CP (custom-market producer)
- 5 U (user)
- 4 G (general interest)
- 3 DR (dealer or rental company)

## 5 Approval of the minutes from the previous meeting

Comments were offered to amend the draft minutes.

Milton Davis moved that the amended minutes be approved. The motion was seconded. The motion was approved by a show of hands, with four abstentions, no opposition, and all the rest voting in favor.

## 6 Reading of the call for patents

The following was read aloud 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."

Steve Terry asked if anyone knew if the about the Vari-Lite assurance letter [to Steve Terry from Brooks Taylor, dated 3 April 2000] is still valid after the purchase of the company and its assets by Genlyte. There was a discussion about previous efforts to get this reassurance. Terry asked Mitch Hefter, the Genlyte employee at the table, to inquire about the Vari-Lite assurance letter.

## 7 The reading of the anti-trust statement

The following 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 \$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, the Technical Standards Manager, held up some of the easy-to-read pamphlets to show their availability.

## **8 Approval of agenda**

Peter Willis said that he had some motions to make under "Other business."

Roger Lattin moved that the agenda amended by these additions under "Other business" be accepted. The motion was seconded. The motion was approved by a unanimous show of hands.

## **9 Old business**

### **9.1 E1.11**

Mitch Hefter reported on the status of the public review comment resolutions.

There was a discussion of whether adding a statement that specifically says you shall follow the timing diagram is a substantive change. It was noted that many statements existing now say that one shall follow a particular parameter in the timing diagram. The change in wording being considered would be to change those individual shall statements to one shall statement. This adds no additional requirements, so the consensus was that this is not a substantive change.

There was a discussion of proposed changes to 5.2 Chassis, in battery operated equipment. The sense was that the proposed changes were substantive, although the problem that the changes were trying to address would affect very few possible products.

The group decided to wait to see the full proposed resolution document and the revised version of the standard before making any other judgments on whether the new version of the standard is substantively changed from the last version that went to public review.

### **9.2 E1.20 Remote Device Management**

Scott Blair reported on the public review comments and the work on proposing resolutions. The task group has over 300 comments to address. He expressed disappointment with some of the comments from within the working group that were so poorly written that it is hard to understand what is wanted or why. Richard Lawrence suggested that the commenter should be contacted for clarification. There was a discussion of whether contacting the commenter must be required. The consensus was that it was in the task group's interest to try to resolve comments most expeditiously, however that is done.

### **9.3 E1.17 Multipurpose Control Network Protocol Suite**

Dan Antonuk reported on the public review comments and the task group's work toward their resolution. He reported that he did not have a comment count, but that his sense was that comments did not challenge the overall architecture of the protocol, which he found heartening.

### **9.4 E1.27-1 Portable cabling**

Karl Ruling reported that the letter ballot for the public review of BSR E1.27-1 had received one "yes with comments" vote and one "no with reasons" vote. The comments and the reasons have been sent back to the voters, and those who voted have 21 days to review the comments and reasons and to change their votes if they choose. The deadline is 17:00 EST, February 3. A recirculation letter ballot had been sent out, and Ruling had some with him at the meeting, in case anyone wanted to change a vote. No one did.

## **9.5 IEEE report —**

Carlson was not present so there was no IEEE report.

Steve Terry reported that two ideas had been suggested in regards to this report:

- 1) It is important and should be in writing.
- 2) It is tangential to the work of the group and should not be a standing agenda item.

Mitch Hefter moved that the IEEE report be taken off the agenda and put into *Standards Watch*. The motion was seconded. The motion was approved by a unanimous show of hands, except for one abstention. Roger Lattin praised this vote and noted that this would get the IEEE report to a wider audience.

## **10 New business**

None.

## **11 Other business**

### **11.1 Peter Willis's motions**

Peter Willis stated that he had two prepared motions in regard to the office of co-chairs, and noted that his motions should not be taken as negative comments in regard to the current or previous chairs.

Peter Willis moved "that the CPWG respectfully request the TSC to consider making the positions of CPWG Co-Chair appointments have limited tenure, with immediate effect." The motion was seconded. There was discussion. By show of hands: three voted in favor, twelve against, and four abstained. The motion failed.

Peter Willis moved "that the CPWG nominate candidates for the CPWG co-chairs and submit them to the TSC for consideration on a regular basis, not to exceed every two years." The motion was seconded. There was discussion. By show of hands: fourteen voted in favor, none voted against, and two voted to abstain. (Some voters did not raise a hand in response to any of the choices, "yes," "no", or "abstain.") The motion was accepted.

Peter Willis, Dan Antonuk, and Scott Blair were charged by Steve Terry with drafting a proposal for a mechanism to accomplish the approved motion.

### **11.2 The Return of the ESTA Interconnectivity Pavilion at Long Beach, CA.**

Dan Antonuk volunteered to organize the effort. There was discussion of staffing needs. Steve Terry charged Dan with making a matrix of show hours, sending it to people, and having them return it.

There was a discussion of having an ACN-RDM breakfast at PLASA and LDI.

There was discussion of creating an ACN-RDM Industry Alliance to continue to promote ACN and RDM and to certify compliance with the standard. The certification idea was judged to be something to ask the TSC to investigate.

## **12 Schedule for future meetings**

Steve Terry announced that the next CPWG meeting would be March 18 at 9:00 in the morning at the Westin Long Beach hotel. The following meeting will be Saturday, July 17, back here at the Dallas/Ft. Worth Airport Marriott South at this same scheduled time, and probably this same room.

## **13 Changes to observer status due to lack of attendance**

Terry stated that Richard Thornton Brown of The i Light Group PLC had now missed three consecutive meetings and was moved to observer status.

**14 Adjournment**

Scott Blair moved that the meeting adjourn. The motion was seconded. The motion was approved by acclamation. Terry declared the meeting adjourned at 11:49.

### CPWG Membership and Contact Information as of 2004-02-03

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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 Klinkrad	Bradley Klinkrad	Bradley Klinkrad	O	G
Ted Fregon	Bytecraft Pty. Ltd.	Bytecraft Pty. Ltd.	O	MP
Bill Ellis	Candela Controls, Inc.	Candela Controls, Inc.	O	U
George Kindler	Pelton Marsh Kinsella	Carter & Burgess, Inc.	P	G
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
Jason Friedman	Creative Realities, Inc.	Creative Realities, Inc.	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
Phillip Nye	Engineering Arts	Engineering Arts	P	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
Tom Grimes	High End Systems, Inc.	High End Systems, Inc.	P	MP
Steve Carlson	High Speed Design, Inc.	High Speed Design, Inc.	P	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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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	O	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
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
William L. Maiman	Lex Products Corp.	Lex Products Corp.	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
Scott M. Blair	LiteSpeed Design	LiteSpeed Design	P	G
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 - South	Mainstage Theatrical Supply	P	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
James Eade	PLASA	PLASA	P	G
Tony Douglas-Beveridge	PLASA	PLASA	A	G
Mac Perkins	PNTA Inc.	PNTA Inc.	O	G
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
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
Brian Dowd	TMB (NJ)	TMB	P	U
Colin Waters	TMB	TMB	O	U
Matt Stroud	University of Texas at Austin	University of Texas at Austin	O	G
Jason Potterf	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 Thomas Group)	USITT	P	U
Torrey Bievenour	Vision Quest Lighting	Vision Quest Lighting	O	G
Charles Reese	VLPS	VLPS	P	MP
Eckart Steffens	SOUNDLIGHT	VPLT	O	G
Eric Cornwell	West Side Systems	West Side Systems	O	U
Mark Jensen	Wybron, Inc.	Wybron, Inc.	P	MP
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