

Minutes Control Protocols Working Group

Saturday, 15 July 2006
Dallas/Ft. Worth Airport Marriott South
Ft. Worth, Texas

Chairman: Tracy Underhill; Electronics Diversified Inc.; P; MP

Recording secretary: Karl G. Ruling; ESTA

Members attending:

Daniel W. Antonuk; Electronic Theatre Controls, Inc.; P; MP
Ralph Weber; ENDL Texas; P; G
Philip Nye; Engineering Arts; P; G
Michael Lay; Strand Lighting (Genlyte Group LLC); P; MP (new parent company at this meeting)
Robert Goddard; Goddard Design Co.; P; MP
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
Gary Douglas; Pathway Connectivity Inc.; P; MP
Nic Bowker; PLASA; P; G
Charles Reese; Production Resource Group; P; DR
Kimberly Corbett; Schuler Shook; P; G (joined at this meeting)
Mark Manthei; Shure Inc.; O; G
Yelena Akhramkov; Shure Inc.; O; G
Mitch Hefter; Entertainment Technology (Genlyte Group), representing USITT; P; U

1 Opening remarks

Tracey Underhill welcomed all to the summer meeting. He introduced himself and explained that co-chairman Steve Terry was not able to attend, so he would be leading the meeting alone

2 Attendance

2.1 Introductions of those present and circulation of attendance sheet

Those present introduced themselves while a blue attendance sign-in sheet was circulated.

2.2 Determination of a quorum

Underhill asked for a show of hands of voters. Eight or more was needed for a quorum. Underhill stated that we clearly had a quorum present.

2.3 Recognition of alternate voting members

Alternate voters were recognized, and voters were reminded that only one person could vote per company on a question.

3 Membership

3.1 Requirements for membership

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

"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

The following people had applied for membership in the following voting and interest categories:

- Bob Toms; Catalyst Microsystems, LLC; Observer; General interest
- Mark Manthei; Shure Inc.; Observer; General interest
- Kehang Wu; Shure Inc.; Observer; General interest
- Yelena Akhramkov; Shure Inc.; Observer; General interest
- Simon Fisher; Enfis Limited; Observer; Custom-product producer
- Michael Lay; Strand Lighting (Genlyte Group LLC); Principal; Mass-market product producer
(Change of parent company from Strand Lighting Ltd. due to a corporate restructuring.)
- Kimberly Corbett; Schuler Shook; Principal; General interest

Mitch Hefter moved that the applications be accepted. The motion was seconded and then approved by show of hands.

[Note: Simon Fisher had sent in his application on March 27, but by the end of June was no longer with Enfis Ltd., according to Paul Flower, the Enfis Ltd. quality manager who worked with Simon Fisher while Fisher was with the company. This information was discovered by the Technical Standards Manager when he called Enfis to verify the postal address. Because he is no longer with Enfis and his current employment status and whereabouts are unknown, Fisher was not added to the working group membership list.]

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

Name	Company	Parent company or organization represented. (This is the sort field.)	Voting status	Int. cat.
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
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	P	CP

Name	Company	Parent company or organization represented. (This is the sort field.)	Voting status	Int. cat.
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	25	
			3	CP
		Votes per interest category	11	MP
			2	DR
			4	U
			5	G

4 Approval of the minutes from the previous meeting (CP/2006-1008)

Eddie Kramer moved that the minutes of the previous meeting be approved as written. The motion was seconded and then approved by a show of hands.

5 Reading of the call for patents

The following statement was read aloud to the assembly 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."

No patents or other protected intellectual property was 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 \$1,000,000

and imprisoned for up to ten years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

Karl Ruling, the Technical Standards Manager, held up one of the easy-to-read pamphlets to show that he had one available for anyone requesting one.

7 Approval of agenda (CP/2006-1009)

Eddie Kramer moved that the draft agenda be approved. The motion was seconded and then approved by a show of hands.

8 Old business

8.1 Cabling

8.1.1 E1.27-1 Portable cabling

Karl Ruling reported that it has been accepted by ANSI and is published and available for sale.

8.1.2 Discussion of motion to approve first review of E1.27-2

The motion was being decided by letter ballot, but there was a very brief discussion.

8.2 E1.20 Remote Device Management

8.2.1 Progress on publication

Ruling reported that it is published and available for sale.

8.2.2 Bulk data transfer

Scott Blair moved that we create a formal project for "Additional Message Sets for ANSI E1.20, Remote Device Management." The motion was seconded. There was discussion, the idea is that this is to be a series of new messages, with bulk data transfer being the first one. The motion was approved by a unanimous show of hands.

8.3 E1.17 Multipurpose Control Network Protocol Suite

8.3.1 Fourth public review report

Ruling reported that no public review comments were received.

8.3.2 Accepting BSR E1.17 as an American National Standard

Dan Antonuk moved that the suite of documents comprising the version of BSR E1.17 last offered for the public review (file ACN.zip) be accepted as an American National Standard. The motion was seconded. This motion had been on the agenda, and absentee ballots had been solicited before the meeting.

The motion was approved by a supermajority of the working group, with the votes being cast as follows:

Name	Company	Parent company or organization represented. (This is the sort field.)	Voting status	Int. cat.	Yes	No	Abstain
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	X		
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP			
Tracy Underhill	Electronics Diversified Inc.	Electronics Diversified Inc.	P	MP	X		
Ralph Weber	ENDL Texas	ENDL Texas	P	G	X		

Name	Company	Parent company or organization represented. (This is the sort field.)	Voting status	Int. cat.	Yes	No	Abstain
Philip Nye	Engineering Arts	Engineering Arts	P	G	X		
Michael Lay	Strand Lighting	Genlyte Group LLC	P	MP	X		
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP	X		
Scott M. Blair	High End Systems Inc.	High End Systems Inc.	P	MP	X		
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	X		
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP			
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP	X		
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	X		
John Huntington	City Tech, Ent Tech Department	I.A.T.S.E. Local 1	A	U			
Roger Latlin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U	X		
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			
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	X		
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	X		
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	X		
Charles Reese	Production Resource Group	Production Resource Group	P	DR	X		
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	X		
Mitch Hefter	Entertainment Technology (Genlyte Group)	USITT	P	U	X		
John Sondericker III	Wybron, Inc.	Wybron, Inc.	P	MP			
		Total votes	25		17	0	0
		Votes per interest category	3	CP	1	0	0
			11	MP	8	0	0
			2	DR	1	0	0
			4	U	3	0	0
			5	G	4	0	0

8.4 E1.11/DMX512-A Recommended Practice

Peter Willis reported that there has not been a lot of activity on this. It is his one person project, and he is plodding away at it. The task group members are consumed with the project of transporting DMX512 data over ACN (BSR E1.31).

8.5 ANSI E1.11 auf Deutsch

Karl Ruling reported that Florian von Hofen and he had discussed DIN's interest in the standard in a telephone conversation. DIN was interested in who held the copyright because they may want to incorporate it into a DIN standard. Ruling had told von Hofen that the CPWG had made it clear that they were not interested in having the standard go through another organization's process, and perhaps being modified, and hoped that a German language version of the English language ANSI E1.11-2004 would satisfy the needs of the German market. After this conversation, von Hofen consulted with some of his constituents, and replied with an email stating that, VPLT does not see any necessity to make ANSI E1.11 a DIN standard.

"We and our cooperating trade associations believe that the best way to promote this standard is the publication of a properly translated document under license of ESTA as an industry standard.

"We have started the procedures to make sure the publication will officially be supported by all trade associations. There will be a formal process declaring the document to be an industry standard. The translation of the document will be finished within this month. We apologize for the delay in this work, but I could not get a budget for the work earlier. (You all know about this kind of problems...)

"We hope to have the document printed by the PLASA-Show 2006. We will then start and promote sales, and we hope that this also will create some reasonable license fees for ESTA."

Peter Willis asked that we receive a copy of the translation before the publication.

8.6 Reaffirmation of ANSI E1.3-2001

8.6.1 Public review report.

Ruling reported that the public review closed EOD 11 April 2006, and that no comments were received. (CP/2006-1007 is the no-comment summary document.)

8.6.2 Next step in the reaffirmation of ANSI E1.3-2001

Mitch Hefter moved that we reaffirm ANSI E1.3-2001. The motion was seconded. The motion had been on the agenda, and absentee ballots solicited. The motion was approved by a supermajority of the working group, with the votes being cast as follows:

Name	Company	Parent company or organization represented. (This is the sort field.)	Voting status	Int. cat.	Yes	No	Abstain
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	X		
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	A	MP			
Tracy Underhill	Electronics Diversified Inc.	Electronics Diversified Inc.	P	MP	X		
Ralph Weber	ENDL Texas	ENDL Texas	P	G	X		
Philip Nye	Engineering Arts	Engineering Arts	P	G	X		
Michael Lay	Strand Lighting	Genlyte Group LLC	P	MP	X		
Robert Goddard	Goddard Design Co.	Goddard Design Co.	P	MP	X		
Scott M. Blair	High End Systems Inc.	High End Systems Inc.	P	MP	X		
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	X		
Robert Bell	Horizon Control Inc.	Horizon Control Inc.	A	MP			
Peter Willis	Howard Eaton Lighting Ltd.	Howard Eaton Lighting Ltd.	P	CP	X		
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	X		
John Huntington	City Tech, Ent Tech Department	I.A.T.S.E. Local 1	A	U			
Roger Latlin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U	X		
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			
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	X		
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	X		
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	X		
Charles Reese	Production Resource Group	Production Resource Group	P	DR	X		

Name	Company	Parent company or organization represented. (This is the sort field.)	Voting status	Int. cat.	Yes	No	Abstain
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	X		
Mitch Hefter	Entertainment Technology (Genlyte Group)	USITT	P	U	X		
John Sondericker III	Wybron, Inc.	Wybron, Inc.	P	MP			
		Total votes	25		17	0	0
		Votes per interest category	3	CP	1	0	0
			11	MP	8	0	0
			2	DR	1	0	0
			4	U	3	0	0
			5	G	4	0	0

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

Dan Antonuk described the work being done. The task group has been working on Primitives, things like the best way of exposing HTP control channels. Progress has been slow.

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

8.8.1 Confirmation of task group leaders

Charles Reese had been working as the task group chairman on a temporary appointment basis. The working group chairmen would like the working group to consider confirming the appointment.

Dan Antonuk moved that we accept Charles Reese as the chairman. The motion was seconded. The motion was approved by a show of hands.

8.8.2 E1.31 Progress report

Charles Reese discussed how RDM fits into this project, stating that we need to stay focused on putting straight DMX512 control data transmission on the network with E1.31, rather than putting in RDM talk-back. If we stay focused, the document could be pulled together in a few weeks.

Philip Nye moved that we offer this document for public review with a vote by letter ballot, when the document is ready for distribution to the working group. The motion was seconded and approved by a unanimous show of hands. Thus, the working group approved the future vote by letter ballot of the forthcoming documents; the actual motion for public review will be decided by that letter ballot.

9 New business

9.1 Motion to start a new project, BSR E1.33

Dan Antonuk moved that we start a new project, BSR E1.33, to cover "Lightweight streaming protocol for transport of RDM messages using ACN"

Title: Extensions to E1.31 (DMX512 Streaming Protocol) for transport of E1.20 (RDM)

Scope: To develop a set of extensions to E1.31 to support E1.20 functionality. The protocol will be suitable for implementation in hardware with very limited resources which is expected to be used in simpler systems. The aim is to add RDM functionality while maintaining E1.31's compatibility with E1.17 architecture and DMX512-A.

The motion was seconded.

There was a long discussion of the numbering scheme. Karl Ruling strongly urged for simplicity simply having it as an E1.33 project.

The motion was approved on a show of hands, with one voting No, one abstaining, and the rest, a clear supermajority, voting Yes.

9.2 Other new business

Tracy Underhill announced that he was reaching the end of his second year as co-chair, and it was time to conduct elections again to select a candidate the working group would like to suggest to the Technical Standards Committee.

Karl Ruling asked for nominations. People wrote their nominations on the note cards supplied by the hotel, and these were collected by Karl Ruling. After those who did not wish to serve removed their names, the nominations were:

Michael Lay
Charles Reese
Tracy Underhill

The election will be conducted by letter ballot as agreed at the 21 October 2004 working group meeting held at Harrah's Las Vegas Casino & Hotel.

10 Other business

10.1 Scott Blair announced that he'd launched an RDM discussion forum. It can be accessed at RDMprotocol.org. He said that it had enjoyed a good response so far, with a lot of people joining from Australia.

10.2 Tracy Underhill asked that we go on record as recognizing the contributions of George Kindler and as offering condolences to his family. There was no opposition to this sentiment.

11 Schedule for future meetings

Tracy Underhill announced that the next meeting is scheduled for Thursday, 19 October 2006, from 09:00 to 13:00 at the Las Vegas Hilton in Las Vegas, Nevada.

12 Changes to observer status due to lack of attendance

Voting members who have missed the previous two meetings and will be moved to observer status if this meeting also is missed:

None.

13 Adjournment

Mitch Hefter moved that the meeting adjourn. The motion was seconded. The motion was approved with a unanimous show of hands. Underhill declared the meeting adjourned at 11:04.

Working Group Membership and Contact Information as of Friday, 21 July 2006

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Jean-Francois Canuel	Spectrum Manufacturing Inc.	A.C. Lighting Ltd.	O	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
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
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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
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 Mehltreter	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
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

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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
Stéphane Jacob	TIR Systems Ltd.	TIR Systems Ltd.	O	MP
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.	P	MP
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