

Minutes
Event Safety Working Group
Saturday, 06 October 2018
D/FW Marriott Solana
Westlake, TX

Presiding chairperson: Donald Cooper; Event Safety Alliance; P; G

Recording secretaries: Karl Ruling and Richard Nix, ESTA

Members in attendance:

Jacob Abbott; PSAV Presentation Services; P; G
Steven A. Adelman; Adelman Law Group, PLLC; P; G
Mike Aug; Chicken Scratch LLC; I; DE
Keith Bohn; Keith Bohn; O; G
Don Earl; Earl Girls, Inc.; P; DR
Douglas Frawley; Atomic Design; P; DE
Ethan W Gilson; Entertainment Rigging Services, LLC; P; DE
Jerry Gorrell; Theatre Safety Programs; P; G
Robert Haycock; UC Berkeley; I; EW
Dominic Housiaux; Lankey & Limey, LTD; P; EVP
Janine A. Jordan; Electronic Music Alliance; P; G
Edwin S. Kramer; 1501; P; EW
Stuart B. Weiss, MD; MedPrep Consulting Group LLC; O; DE
Kevin Pew; Digital Sound Systems; P; DR
Tim Salamon; PSAV Presentation Services; O; G
Janet Sellery; CITT/ICTS; P; G
Steven Serafin; Chubb Group of Insurance Companies; P; INS
Keith Sklar; Actors' Equity Association; P; PA
Stewart Stephens; Ashford Management Group; O; G
Will Todd; Area Four Industries; P; EQP
Stephen Vanciel; IATSE Local 631; P; EW

1 Opening Remarks

Don Cooper called the meeting to order at 14:05, saying that he anticipated a few more people to log in via WebEx. He welcomed everyone to the meeting, and asked for people to introduce themselves as we waited for people to log on. The in-person attendees introduced themselves, then the online participants did the same.

Since 01 October 2018 marked the one-year anniversary of the Route 91 Harvest Music Festival active shooter incident, he asked for a moment of silence in memory of those who died and were injured last year, during the incident.

2 Patent and anti-trust statements

2.1 Reading of the anti-trust statement

The following statement was read aloud to the assembly by Don Cooper:

ESTA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all ESTA events, all discussions will be limited to those subjects that are permitted by the antitrust laws. All members should refrain from any discussion or mention of competitively sensitive subjects such as the current or future prices charged for any member product or services, current or future marketing plans or strategies, and current or future costs, including employee salaries. There also must be no agreement on the suppliers or customers that members will or will not do business with or the markets in which members will conduct business.

Violations of the antitrust laws can have serious consequences. If you have any questions or concerns about

anything that is discussed at an ESTA meeting, please bring your concern to ESTA management. An easy to read pamphlet describing the antitrust laws is available from the ESTA staff.

Karl Ruling held up some pamphlets. No issues were raised.

2.2 Reading of the call for patents

The following statement was read aloud to the assembly by Don Cooper:

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, patent application, copyright, or other protected 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.

Nothing was revealed.

3 Attendance and Membership

3.1 Requirements for membership

The following statement was read aloud to the assembly by Don Cooper:

Membership is open to all parties who are affected by the work of the group; membership in ESTA is not a requirement, but there is a \$100/person/year participation fee to help fund the costs of running the Technical Standards Program. Voting members are required to attend meetings and vote on letter ballots. Any principal member and alternate that both miss three consecutive meetings or letter ballots will have their membership status changed to observer. This action will be taken at the beginning of the first meeting after such inaction and will be recorded in the minutes of that meeting.

3.2 Introduction of attendees

3.3 Determination of a quorum

There are currently 37 votes possible. A quorum is 13; supermajority is 19.

3.4 Processing of new membership and status change requests

As of 12 September 2018, the following applications and status change requests have been received:

Douglas Frawley, Atomic Design, P, Designer (new member application)
Miriam Paschetto, Geiger Engineers, O, DE (change request to Observer)
Rod Haney, I.A.T.S.E. Local 891, P, DE (Change request removal from ESWG)
Stuart B. Weiss, MD; MedPrep Consulting Group LLC; Change to principal
Steward Stephens; JSAV (Ashford Management Group); O; General interest
Keith Bohn (change to voting member from observer)

Will Todd moved to approve the applications and status changes as submitted. The motion was seconded, and carried with both a show of hands and voice vote. There were no abstentions or objections.

3.5 Changes to observer status due to lack of attendance

The following voters have missed the last two meetings and are in jeopardy of being moved to Observer status if this meeting is also missed:

Kevin Pew, Digital Sound Systems, P, G (present)
Jeremy Dixon, Digital Sound Systems, A, G
Jeff Reder, Clark-Reder Engineering, P, DE (not present)
Alan Winzler, Clark-Reder Engineering, A, DE (not present)

Kevin Pew was present at the meeting, so neither his nor Jeremy Dixon's status were changed. Neither Jeff

Reder nor Alan Winzler were present, so their status was changed to that of Observer in accordance with the Policies and Procedures.

3.6 Status changes due to TSP fee non-payment

The following individuals have been removed from the working group, any pertinent task group rosters and email reflectors, due to non-payment of the TSP participation fee:

Erich Friend
Steve Allen
Bob Ross
Jacob Worek
Mike Kelly
Robert M. Ghent
Dax Cochran
Connor Fitzpatrick
Joseph M. Patsco
Art Rich
Bobb Dymarcik
Brittney Jackson
Allen H. Ostroy
Kevin W. Cheney
Russell H. Read
Bill Kenney

Task group leaders please note these changes as applicable to your respective groups. These individuals have been copied on this email distribution.

3.7 Consensus body

The full consensus voting body during this meeting, after all status changes and including those not present, was:

Delegate	Representing	Voting status	Int. cat.
Edwin S. Kramer	1501	P	EW
Keith Sklar	Actors' Equity Association	P	PA
Steven A. Adelman	Adelman Law Group, PLLC	P	G
George Long	Aggreko	P	DR
Will Todd	Area Four Industries	P	EQP
Carmen Savarese	Area Four Industries	A	EQP
Douglas Frawley	Atomic Design	P	DE
Mike Aug	Chicken Scratch LLC	I	DE
Steven Serafin	Chubb Group of Insurance Companies	P	INS
Janet Sellery	CITT/ICTS	P	G
Monique Corbeil	CITT/ICTS	A	G
Gareth Conner	Creative Conners, Inc.	P	EQP
Kevin Pew	Digital Sound Systems	P	DR
Jeremy Dixon	Digital Sound Systems	A	DR
Don Earl	Earl Girls, Inc.	P	DR
Janine A. Jordan	Electronic Music Alliance	P	G

Delegate	Representing	Voting status	Int. cat.
Ethan W Gilson	Entertainment Rigging Services, LLC	P	DE
Donald Cooper	Event Safety Alliance	P	G
Chris Schmidt	Freeman Companies	P	DR
Danielle Hernandez	Furman University	P	G
Stephen Vanciel	IATSE Local 631	P	EW
Alyxzander Bear	Insomniac	P	EVP
Dominic Housiaux	Lankey & Limey, LTD	P	EVP
Diane K. Mack	Mack Strategies, LLC.	I	G
Stuart B. Weiss, MD	MedPrep Consulting Group LLC	P	DE
Tim Hansen	Oasis Stage Werks	P	DR
Orestes Mihaly	Production Resource Group	P	EVP
Keith Bohn	Production Rigging Resources	P	G
Jacob Abbott	PSAV Presentation Services	P	G
Patrick Wallace	PSAV Presentation Services	A	G
Bennett Brian	Reed Rigging Inc.	P	DR
Richard J. Nix	Richard J. Nix	I	G
Roger L. Lattin	Roger L. Lattin	P	EW
Neil Huff	Taylor & Taylor Insurance Brokers	P	INS
Jim Larkin	The Long Center for the Performing Arts	P	EVP
Jerry Gorrell	Theatre Safety Programs	P	G
Daniel H. Louis	Theta Consulting LLC	P	G
Robert Haycock	UC Berkeley	I	EW
Markus Hehn	Verity Studios AG	P	EQP
Federico Augugliaro	Verity Studios AG	A	EQP
Randell Greenlee	VPLT	P	G
Christian A. Buschhoff	xEMP extra Entertainment Media Publishing oHG	P	G
		37	Total
	Subtotals by interest categories	4	EVP
		3	EQP
		6	DR
		4	DE
		4	EW
		1	PA
		2	INS
		13	G

Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter

Interest Categories key: DE = Designer of Events (incl. artistic elements, safety systems, etc.); DR = Equipment Dealer or Rental Company; EQP = Equipment Producer; INS = Event Insurance Company; EVP = Event Producer; G = General interest; PA = Performing Artist; EW = Event Worker

4 Approval of the minutes from the last meeting

See *Esmin07-2018r1_DRAFT.pdf*.

Steve Vanciel moved to approve the minutes. The motion was seconded, and carried with unanimous consent.

5 Approval of agenda

The agenda must be approved, either as drafted or with modifications, by a vote of the working group.

Steve Vanciel asked to add an item under new business, regarding a new project for followspot positions. Eddie Kramer moved to approve the agenda as modified. The motion was seconded, and carried with unanimous consent.

6 Old Business

6.1 Task Group reports

At the July meeting, task groups were requested to begin including coordination items in their respective reports.

Don Cooper asked all task group leaders to provide current versions of their respective draft documents, to be emailed to the task group chairs' email reflector, by 21 December 2018. The email reflector address is ES_TGChairs@esta.org.

6.1.1 Planning & Mgmt/Major Incident Planning (Jordan/Bear/Aug)

Janine Jordan, Alyxzander Bear, Mike Aug (three co-chairs), Keven Pew, Dan Louis, Frank Baird, Bruno Marx, Don Parman, Joe Golden, Dominic Housiaux, Don Cooper, Richard Nix.

At the July meeting, Janine Jordan reported continued progress, with a document update anticipated soon after the meetings. Any news, updates, or action?

Janine Jordan gave an update, they are making good progress over the past two months by making use of task group surveys to resolve questions that have arisen in the task group. They will continue to move forward, and will provide a new draft to the working group before December 21.

6.1.2 Fire Safety (Cooper)

Bruno Marx, Dominic Housiaux, Pete Happe, Danielle Hernandez, Diane Mack, Richard Nix, Don Cooper (Chair), Craig Kolakowski, Kurt Miner, Doug Frawley

At the July meeting Don Cooper reported making good progress, partially due to the availability of remote access to task group members. He expected continued meetings and progress. Any news, updates or action?

Don Cooper gave an update, stating they have 10 sections currently in the Fire Safety document, with two more chapters anticipated prior to sending an updated draft by 21 December. He added that the latest version is "checklist heavy." He anticipates having a draft ready for public review in first quarter of 2019.

6.1.3 Medical, Ambulance & First Aid Management (Haycock/Housiaux)

Dominic Housiaux (Co-chair), Robert Haycock (Co-chair), Sandy Gilzow, Neil Huff, Christian Buschhoff, Connor Fitzpatrick, Stuart Weiss, Janine Jordan, Diane Mack, Richard Nix, Don Cooper

At the July meeting, Robert Haycock reported that the task group has made sufficient progress to actually put words on paper. The task group anticipates continued Webex meetings and progress. Any news, updates or action?

Robert Haycock and Dominic Housiaux each gave an update, stating that the TG has had several online meetings, and they have made excellent progress. There are still some missing elements, but they are working to fill those gaps. Dr Stuart Weiss mentioned that he had been elected to the Board of Event Medicine and asked if it would be OK to share the draft with those people who are the professionals actually working in the field. Don Cooper said that his type of input is welcome. Karl Ruling affirmed this, and reminded everyone that if those people wish to contribute words to the draft document, they must join the working group.

6.1.4 Communication (Hernandez)

Danielle Hernandez (Chair) Alyxzander Bear, Roger Lattin, Stuart Weiss, Dominic Housiaux, Greg Guzzetta, Janine Jordan, Richard Nix, Don Cooper, Janet Sellery.

From the draft July minutes:

Danielle Hernandez reported ongoing progress even up until the day of the WG meeting. Task group meetings and further progress will continue. Any news, updates or action?

Don Cooper reported that Danielle Hernandez had emailed him to say that she had to cancel her attendance at the meeting due to a last-minute event, but reported that they are continuing to make progress, and have been incorporating information from other task group documents. She also requests that anyone with specific communication topics or language in their standards to please send her a copy so she can evaluate it relative to the Communications scope.

6.1.5 Weather Preparedness (Mack)

Diane Mack (Chair), George Long, Roger Lattin, Frank Allison, Janine Oblak, Jim Digby, Mike Aug, Dan Louis, Richard Nix, Don Cooper.

A progress document was provided to the working group prior to the last meeting. Any news, action or updates to report?

No report.

6.1.6 Venue & Site Design (Bear)

Alyxzander Bear (Chair), Kevin Pew, Dan Louis, Frank Baird, Mike Aug, Bruno Marx, Don Parman, Joe Golden, Dominic Housiaux, Richard Nix, Don Cooper, Doug Frawley

From the draft July minutes:

Alyxzander Bear reported group progress, including a draft update distributed to the working group prior to the July meeting. Any news, updates or actions?

Mike Aug reported that progress is being made.

6.1.7 Crowd Management (Adelman)

Steve Adelman (Chair), Orestes Mihaly, Christian Buschhoff, Danielle Hernandez, Tim Roberts, Kurt Miner, Karen Hoffman, Dana Risinger, Neil Huff, Greg Guzzetta, Dominic Housiaux, Dan Gibbs, Janine Jordan, Eric Stuart, Richard Nix, Don Cooper

From the draft July minutes:

Steve Adelman reported having a flash of insight about crowd management, and is ready to move forward. Any news, updates or action?

Dominic Housiaux reported, saying that he had not been doing much until recently, but has revived and is making progress. Steve Adelman logged into the meeting via WebEx after Dominic gave this report, and had nothing to add.

6.1.8 Electrical Installation & Lighting (Haycock, Housiaux)

Dominic Housiaux (Co-chair), Robert Haycock (Co-chair), Don Earl, George Long, Don Parman, Tim Hansen, Steve Vanciel, Roger Lattin, Eddie Kramer, Joe Golden, Richard Nix, Don Cooper

At the July meeting, Robert Haycock and Dominic Housiaux each reported progress and intent to continue with Webex meetings. Any news, updates of action?

Robert Haycock gave a report, the task group is making good progress, he thanked the task group for their willingness to take on individual homework assignments, which have helped move the document forward

6.1.9 Rigging (Bohn/Schmidt/Gilzow)

Keith Bohn, Sandy Gilzow, Chris Schmidt (three co-chairs), Tim Hansen, Frank Allison, Don Parman, Joe Golden, Patrick Wallace, Jacob Abbott, Ben Brian, Don Earl, Richard Nix, Don Cooper, Eric Ormberg

From the July meeting minutes:

Don Cooper reported that he had received an email from Keith Bohn, who explained that his recent work load had prevented him from working on the rigging chapter or attending the July working group meeting. Keith said he anticipated being able to re-commit to the task group work between August and November. Any updates, news or action to report?

Keith Bohn gave an update, stating they would be getting back to regular WebEx meetings, and promised an update by 21 December

6.1.10 Structures (Nix)

Richard Nix (Chair), Will Todd, Dominic Housiaux, Janine Oblak, Alyxzander Bear, Allen Winzler, Dan Louis, Sandy Gilzow, Tim Roberts, Jacob Abbott, Patrick Wallace, Jim Erickson, Charlie Weiner, Don Cooper, Mike Aug, Chris Schmidt

At the time of this writing, the working group letter ballot to accept as an ANS is in progress, scheduled to end on 03 October 2018.

Richard Nix reported that the Working Group motion to accept as an ANS carried in the working group letter ballot, which had closed a few days prior, on 03 October, with twenty-five “yes” votes, and no abstentions or objections. Since twelve voters did not return ballots on this first working group letter ballot, he reminded everyone that voting on letter ballots is a working group membership requirement. He also said that, in anticipation of the motion being carried, the draft had already been sent to the Technical Standards Council for a roll-call vote at their upcoming meeting on the following Sunday. A subsequent letter ballot will be sent to the Executive Committee. If the motion carries in each group, it will then go to ANSI’s Board of Standards Review.

6.1.11 Security (Huff)

Neil Huff (Chair), Christian Buschoff, Alyxzander Bear, Kurt Miner, Dominic Housiaux, Steve Serafin, Danielle Hernandez, Dan Gibbs, Janine Jordan, Diane Mack, Don Cooper

A progress document Security Document R0 20180711 WG Progress.pdf, was distributed to the working group for informational use and comment prior to the July meeting. Any updates, news, or action to report?

No report.

6.1.12 Drone safety at indoor events (Markus Hehn)

Markus Hehn (Chair); Federico Augugliaro; Steve Serafin, Don Cooper

Any updates, news or action?

Don reported on work being done to integrate their work with existing standards. This includes better defining what “indoor” means and what kinds of crafts we are covering in this standard.

6.1.13 Glossary of terms (Cooper)

Don Cooper mentioned the glossary of terms and definitions as an ongoing work in progress, reminding everyone to look there first if they felt like they needed a definition for a term that is specific to their respective

task group documents, or if they wished to add a term to the glossary. He asked that sources be thoroughly cited for any new definition. The glossary is in a Google Doc format, and can be accessed at this link:

https://docs.google.com/document/d/1UepSA35LaAyX3R_YOf4dAYTWM1EJIBTOLQxQxE_NJmk/edit?usp=sharing

7 New business

8 Other business and announcements

8.1 Above & Beyond Awards

Information on the Above & Beyond Awards may be found at http://tsp.esta.org/tsp/news/award_recipients.html. The nomination site is open year round, and the award is designed for members to highlight the work of their peers.

8.2 Followspot Position Working Group project

Steve Vanciel noted the new temporary outdoor followspot position project and suggested that when it is finished it could be referenced by this working group.

9 Schedule for future meetings

The full and current meeting schedule may be found at <http://www.esta.org/ESTA/meetings.php>.

9.1 January NAMM Show meetings

The Winter ESTA meetings will take place from 23-27 January at the Sheraton Park hotel, in conjunction with the NAMM Show in Anaheim CA. The ESWG meeting is tentatively scheduled from 14:00-18:00 PST on Saturday 26 January.

9.2 March USITT Conference meetings

The Spring 2019 ESTA meetings will take place during the annual USITT Conference & Stage Expo, to be held 20-23 March 2019 in Louisville, KY. ESTA meeting dates have not yet been set.

10 Adjournment

The Agenda being completed and there being no further business brought forth, Don Cooper declared the meeting adjourned at 14:59.

Chapter scopes as of the 07-2017 ESWG meeting

BSR ES1.2 – 201x, Planning, Management, and Major Incident (Emergency) Planning

Describes a process for event organizers to create health and safety management and response plans for events. This process includes a framework, guidelines, and recommended practices in order to reduce risk and to respond appropriately when an incident occurs.

BSR ES1.4 – 201x, Fire Safety

This standard shall apply to fire safety in the live entertainment industry. The live entertainment industry includes, but is not (strictly) limited to, musical productions, festivals, concerts, theatre and film production, video productions, corporate events, trade shows, certain sporting events and broadcast production.

BSR ES1.5 – 201x, Medical, Ambulance & First Aid Management

The Medical Management Standard for Live Events describes methods to assess the recognizable medical needs and to implement medical responses for event organizers responsible for the medical services for the public, workers, and contractors at a live event.

BSR ES1.6 – 201x, Communication

Describes communication requirements from two main perspectives: internal communication, and public information. Requirements include the thorough examination of all the organizations involved in the event, assessed individually or jointly, general and operational management of the event, handling routine health, safety and welfare information, as well as effective communication in the event of a major incident.

BSR ES1.7 – 201x, Weather Preparedness

This section of the Standard will address weather-related hazards to events, especially severe weather (thunderstorms/lightning, heavy rain/wind, hail, ice, snow, extreme cold, and extreme heat). This section encompasses live events of all sizes and nature (music, sports, gatherings, etc.), including both indoor and outdoor (open-air) venues, as both have considerations for attendees inside and outside the venues, and sites not designed for public entertainment. This weather component of the Standard will provide guidance for general steps to be taken for weather preparedness, but event-specific action triggers should be established based upon the event itself and predicted/possible weather for each event's location and time of year.

BSR ES1.8 – 201x, Venue & Site Design

The scope of this Standard is to provide a baseline understanding for a safe and suitable venue or site selection for any type of event. While safety is the primary concern, consideration is given to location, construction, environment and other site and situation factors to emphasize ideal assessment of the venue and site design.

BSR ES1.9 – 201x, Crowd Management

The scope of this standard is to define (a) "crowd management," (b) explain its significance in the context of live event production, both historically and in current times, (c) explore modern crowd management theory and terminology, and (d) apply these terms to reasonably foreseeable risks that arise during live events. Because the context of each event plays an important role in determining reasonable crowd management for that event, this standard will reflect the myriad types of crowds and crowd behaviors by emphasizing issues for the reader's consideration more than specific things one must do or tools one must employ.

BSR ES1.17 – 201x, Electrical Installation and Lighting

The scope of this standard is to identify relevant codes, standards, and recommended practices to be referenced when planning temporary portable electrical installations for live events and identifying where qualified personnel are required for the work.

BSR ES1.18 – 201x, Rigging

This standard provides minimum requirements and general guidelines for the overhead suspension of equipment and materials that are utilized in the technical production of organized live events. These events may include, but not be limited to: concerts, dramatic performances, outdoor festivals, conferences and exhibitions.

The intended audience for this standard includes any person or entity directly or indirectly involved with rigging

activities for an organized live event. This may include, but not be limited to: event organizers and promoters, system designers and engineers, event producers, venue managers, technical director, touring personnel, local labor providers, local riggers, and installation personnel.

This standard addresses the general requirements for design, planning, installation, set-up, removal and operation of overhead rigging activities, and any equipment that might interact with, or be used for an overhead suspension purpose. These activities may be conducted within permanent or temporary structures, either in or out of doors. This document also provides guidelines and recommended practices to establish a safe environment during all phases of operation.

BSR ES1.19 – 201x, Structures

The scope of this standard covers any temporary structure used for special events ("temporary special event structures"), where such structures are used for presentation, performance, structural support of entertainment technology equipment, audience seating or viewing in conjunction with the event, and regardless if the event is indoor or outdoor.

The scope of this standard covers any such structure not otherwise addressed by existing standards, codes or legislation, and to the extent that such other standards, codes or legislation do not already address conditional use of those temporary structures within existing structures.

BSR ES1.40 – 201x, Security

This standard describes various security measures to maintain a reasonably safe environment for live events for the benefit of audiences, artists, entertainment production personnel, vendors, and all other attendees of live events. The standard intends to describe procedures for safeguarding onsite performance equipment, merchandise, vendor property, cash or tokens, alcohol, vehicles, equipment, etc. The standard will cover perimeter security, identification of and solutions to manage physical onsite hazards, overnight security, and safeguarding onsite property, audience, artists, and guests

BSR ES1.41 -- 201x, Unmanned Aerial Systems

The standard aims at improving safety related to the use of UASs (unmanned aerial systems) and UAVs (unmanned aerial vehicles--often called drones) at live events. The standard will cover the use of remote-controlled and autonomous, tethered and untethered UAVs (e.g. helicopters, lighter-than-air vehicles, fixed-wing vehicles). It will cover flight operations above stage and audiences. It will provide technical requirements, risk assessment methods, operational procedures, and will cover other aspects related to the use of UASs and UAVs at live events (such as maintenance, training, radio-frequency considerations, and automated system checks).

Event Safety Working Group members as of 18 October 2018

Name	Representing	Status	Int Cat
Jacob Abbott	PSAV Presentation Services	P	G
Steven A. Adelman	Adelman Law Group, PLLC	P	G
Mike Aug	Chicken Scratch LLC	I	EW
Federico Augugliaro	Verity Studios AG	A	EQP
Evan Bailey	Disco Donnie Presents	O	DE
Frank Baird	Middle Tennessee State University	O	EVP
Alyxzander Bear	Insomniac	P	EVP
Keith Bohn	Production Rigging Resources	P	G
Bennett Brian	Reed Rigging Inc.	P	DR
Christian A. Buschhoff	xEMP extra Entertainment Media Publishing oHG	P	G
Eric Colby	The Metropolitan Opera / Lincoln Center	O	EVP
Gareth Conner	Creative Conners, Inc.	P	EQP
Donald Cooper	Event Safety Alliance	P	G
Monique Corbeil	CITT/ICTS	A	G
Jim Digby	Event Safety Alliance	O	EVP
Jeremy Dixon	Digital Sound Systems	A	DR
Don Earl	Earl Girls, Inc.	P	DR
Douglas Frawley	Atomic Design	P	DE
Roderick van Gelder	Stage Safety pty ltd	O	DE
Ethan W Gilson	Entertainment Rigging Services, LLC	P	DE
Sanford P. Gilzow	Shur-Rig LLC	O	DR
Joe Golden	Joe Golden	O	DE
William B. Gorlin	M.G. McLaren, P.C.	O	G
Jerry Gorrell	Theatre Safety Programs	P	G

Event Safety Working Group members as of 18 October 2018

Name	Representing	Status	Int Cat
Erin Grabe	ESTA	exf	
Randell Greenlee	VPLT	P	G
Greg Guzzetta	Event Intelligence Group	O	EVP
Tim Hansen	Oasis Stage Werks	P	DR
Pete Happe	Pete Happe	O	G
Robert Haycock	UC Berkeley	I	EW
Markus Hehn	Verity Studios AG	P	EQP
Danielle Hernandez	Furman University	P	G
Karen Hoffman	Madison Square Garden Company	O	EVP
Dominic Housiaux	Lankey & Limey, LTD	P	EVP
Neil Huff	Taylor & Taylor Insurance Brokers	P	INS
Janine A. Jordan	Electronic Music Alliance	P	G
Kent H. Jorgensen	IATSE Local 80	O	EW
Craig Kolakowski	Allianz Global Corporate & Specialty	O	INS
Edwin S. Kramer	1501	P	EW
Jim Larkin	The Long Center for the Performing Arts	P	EVP
Roger L. Lattin	Roger L. Lattin	P	EW
George Long	Aggreko	P	DR
Ross Long	I.A.T.S.E. Local 891	O	G
Daniel H. Louis	Theta Consulting LLC	P	G
Diane K. Mack	Mack Strategies, LLC.	I	G
Bruno Marx	Eventknowhow	O	EVP
Stuart B. Weiss, MD	MedPrep Consulting Group LLC	P	EW
Orestes Mihaly	Production Resource Group	P	EVP

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Name	Representing	Status	Int Cat
Jeff T. Miller	Miller Technical Management	O	DE
Kurt J. Miner	Allianz Global Corporate & Specialty	O	INS
Richard J. Nix	Richard J. Nix	I	G
Janine Ashley Oblak	Janine Ashley Oblak	O	EW
Erik Ornberg	Encore Event Technologies	O	DR
Don Parman	Actsafes	O	G
Miriam Paschetto	Geiger Engineers	O	DE
Kevin Pew	Digital Sound Systems	P	DR
Jeffrey M. Reder	Clark-Reder Engineering, Inc.	O	DE
Dana Risinger	Walmart Stores, Inc.	O	EVP
Tim Roberts	The Event Safety Shop	O	G
Karl G. Ruling	ESTA	exf	
Tim Salamon	PSAV Presentation Services	O	G
Carmen Savarese	Area Four Industries	A	EQP
Chris Schmidt	Freeman Companies	P	DR
Janet Sellery	CITT/ICTS	P	G
Steven Serafin	Chubb Group of Insurance Companies	P	INS
Jason Showers	Advanced Staging Productions	O	DE
Keith Sklar	Actors' Equity Association	P	PA
Sean Spence	Ink Entertainment	O	DE
Stewart Stephens	Ashford Management Group	O	G
Eric Stuart	Gentian Events Ltd	O	DE
Will Todd	Area Four Industries	P	EQP
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Peter Willis	Howard Eaton Lighting Ltd.	O	EQP
Allen Winzler	Clark-Reder Engineering, Inc.	O	DE
Jeong Sik Yoo	Ghost LX	O	G