SYMPOSIUM WEEK AT A GLANCE May 5 - 10, 2019

Time	Sunday 5	Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
		Registration	Trade Show	Trade Show	Trade Show	Trade Show
		Trade Show	Until 17:00	Until 12:00	Until 17:00	Until 12:00
		Until 17:00				
8:30		OPENING	Presentations	Presentations	Presentations	Presentations
		Presentations				
10:00		Break	Break	Break	Break	Break
10:30		Presentations	Presentations	Moderated	Presentations	Presentations
				Sessions		
12:00		Lunch	Lunch	CLOSE	Lunch	CLOSE
13:00	Registration					
13:30		Presentations	Presentations		Presentations	
				Daytime		
15:00		Break	Break	Fireworks	Break	
15:30		Presentations	Workshop:		Workshop:	
			Regulations		Always Safe	
17:00	CLOSE	CLOSE	CLOSE		CLOSE	
18:00						
19:00	Welcome					Gala Dinner
	Reception					
Evening	•	Fireworks	Fireworks		Fireworks	Fireworks

Special MHC Events

Monday 6	19:00	Meet and depart from the Sheraton Buganvilias
	20:00	"Sender of Light" procession
	20:30	Opening Ceremony by MHC
	21:30	Fireworks Pirotecnia Santiago / Oaxaca
	22:00	Fireworks - Unión de Pirotéchnicos del Estado de Jalisco
Tuesday 7	20:00	Meet and depart from the Sheraton Buganvilias
	21:00	Fireworks - Piroshow / Puebla
	21:30	Fireworks - Fireworks Martarello Ramos
		Zumpango, Estado de México
Wednesday 8	13:00	Daytime Fireworks – Pirotecnia El Caperuzo Tultepec, Estado de México

Thursday 9	20:30	Meet and depart from the Sheraton Buganvilias
	21:00	Fireworks - Unión de Pirotéchnicos de San Mateo
		Tlalchichilpan, A.C.
	22:00	Fireworks – México Bailando, Tultepec,
Friday 10	17:30	Meet and depart from the Sheraton Buganvilias
•	18:00	GALA DINNER (17 th ISF Event, Optional)
	22:30	Fireworks - Grupo de Pirotéchnicos de San Pedro Zumpango
		Zumpngo, Estado de México

Registration

Registration for the 17th International Symposium on Fireworks includes entry to receptions, meals and refreshment breaks, all technical sessions (paper presentations), workshops, full access to the Trade Show, and all events and activities organized by the Mexico Host Committee (MHC).

Registrants will receive a distinctive attendee bag, both a printed and digital copy of the 17th ISF Proceedings, which is a compilation of the scientific and technical papers presented at the symposium, a printed Program, and other promotional materials supplied by sponsors and advertisers.

Trade Show

Exhibits will open each day at 9:00 Monday to Friday, and will close at the same time as the technical sessions. Attendees are strongly encouraged to visit our outstanding exhibitors and discuss their products and services. The exhibitors' participation is a highly welcome and necessary part of the Symposium.

17th INTERNATIONAL SYMPOSIUM ON FIREWORKS

PRESENTATIONS SCHEDULE

May 6-10, 2019

SUNDAY: May 5, 2019

13:00 to 17:00 Registration

19:00 Welcome Reception (Sponsored by FireOne -

Pyrotechnics Management, Inc)

MONDAY: May 6

8:30 OFFICIAL OPENING

Opening by the ISFS Ltd - *Dr. Roger L. Schneider*, Vice President and Secretary of the International Symposium on Fireworks Society, Ltd.

Welcome by the ISFS Ltd - Ettore Contestabile, President of the International Symposium on Fireworks Society, Ltd.

Welcome, Local - Ing. Arturo Dávalos Peña, Presidente Municipal de Puerto Vallarta, Mayor of the City of Puerto Vallarta

Welcome, Local - Enrique Alfaro Ramírez, Gobernador Constitucional del Estado de Jalisco, Governor of the State of Jalisco

Presentations – mementos, gifts and certificates of appreciation

Introduction of Honorary Chairman - Maestro Gerónimo Miguel Zamora Nuño

Ceremonial transfer of the Honorary Chairman Name Tag from Mr. Yoshihiko Satoh (Vice Mayor, Daisen City, Japan, representing the 16th ISF Honorary Chairman, Professor Masamitsu Tamura) to the 17th ISF Honorary Chairman, Maestro Gerónimo Miguel Zamora Nuño.

Guest Speakers

9:00 Observations on the Mexican Fireworks Industry (10 Year Challenge) - *Jorge Mauro Márquez Márquez*, Lux Pirotecnia, S.A. de C.V., México

9:30 The Psychology of Safety in the Fireworks Industry - Creating a safer environment by nurturing the conscience and culture of safety in the fireworks industry - *Alberto Navarro and Susan Hunt*, Infinity Visions Inc., Bellevue, WA, USA

10:00 BREAK

MONDAY: May 6 continued

Session 1

Session Chairperson: Alejandro Mantecón González – Pyrosmart Mexico

10:30 Creation of Pyrotechnic Standards in Mexico - Colleen S. Patton, Promedsa, Naucalpan de Juárez, Mexico

11:00 Mestre Coheter - History, Relationships and Rituals in the Pyrotechnic Communities in Puebla, Luis Manuel Mora del Carmen, Puebla, Mexico

11:30 16th International Symposium on Fireworks – Omagari Report - *Shinetsu Sakaki*, Omagari Chamber of Commerce and Industry, Daisen, Akita, Japan

12:00 LUNCH

Session 2

Session Chairperson: Lino Flores, Piroflores, Mexico

13:30 Comprehensive Safety Considerations for Businesses Handling Explosives - *Björn Eckhardt and Dietrich Eckhardt*, PyroKnowHow/Modicolitor, Germany

14:00 Fireworks Disaster - A Preventable Tragedy - *Nir Haimov*, The National Fireworks Laboratory, and *Aharon Goren*, The Israeli Explosives Safety Center, Caesarea, Israel

14:30 Ballistic and Safety Advantages of Modern Propellants in Fireworks - *Gabor Tasnadi*, TÜV InterCert, Budapest, Hungary, *Dietrich Eckhardt*, PyroKnowHow/Modicolitor, Berlin, Germany, and *Marc Speer*, Speer Pyrotechnik, Bremen, Germany

15:00 BREAK

Session 3

Session Chairperson: Dietrich Eckhardt, PyroKnowHow/Modicolitor, Germany

15:30 Fragile Coloration Mechanism of Traditional Japanese Sparkler, Senko-Hanabi - *Chihiro Inoue, Taiki Watanabe, and Yuzo Inokuchi*, Department of Aeronautics and Astronautics, Kyushu University, Japan

16:00 Fireworks Accidents in Japan During 2016-2017 - *Yuji Wada*, Research Institute of Science for Safety and Sustainability (RISS), National Institute of Advanced Industrial Science and Technology (AIST), and Institute of Advanced Sciences, Yokohama National University, *Ryoji Makino, Shoko Abe, Takako Itou, Maki Suzui, Nobuo Nakajima, and Masahide Wakakura*, Research Institute of Science for Safety and Sustainability (RISS), National Institute of Advanced Industrial Science and Technology (AIST), *Akiko Matsuo*, Dept. Mechanical Engineering, Keio University, and *Atsumi Miyake*, Institute of Advanced Sciences, Yokohama National University, Japan

MONDAY: May 6 continued

Session 3 continued

16:30 Study of the Influence of PM2.5 Concentration in Ambient Air Quality in China - *JiangYou Huang*, Liuyang Fireworks Administration Bureau, *BenHua Tao*, Liuyang Zhitong Fireworks Industry Development Strategy Research Center, Liuyang Fireworks and Firecrackers General Association, Hunan, China

CLOSE

TUESDAY: May 7

Session 4

Session Chairperson: *Martyne Gagnon*, Entertainment Manager and Director of L'International des Feux Loto-Québec presented by TELUS, Canada

8:30 Challenges Facing the China Fireworks Industry - Carson Lee, Up Pyro & Boomwow Fireworks, Liuyang, Hunan, China

9:00 Sync or Swim - Achieving Reliable Time Code - *Dan Barker*, FireOne - Pyrotechnics Management, Inc, USA

9:30 External and Internal Ballistics Study and Pressure Evaluation for the Safe Design of a 1,575 mm (62 Inch) Mortar - Eric M. Krug, Krug Consulting LLC, Loveland, CO, USA

10:00 BREAK

Session 5

Session Chairperson: *Kevin Li*, General Manager of Chili Fireworks, President of Chamber of Liling Fireworks Commerce, China

10:30 Chemical Products Storage and Handling in the Pyrotechnics Industry - Francesc Lleches Barber, Pyrolab, S.L., Valencia, Spain

11:00 Transport, Storage, Standards and Brexit - Andy Hubble, Star Fireworks Ltd, Berkshire, United Kingdom

11:30 Safe Use and Storage of Fireworks in The Netherlands - *Piet Timmers and Soedesh Mahesh*, RIVM, National Institute for Public Health and the Environment Centre for Environmental Safety and Security, Bilthoven, The Netherlands

Presentation by a representative of Chamber of Liling Fireworks Commerce, China, Sponsor of Today's Lunch

12:00 LUNCH

Session 6

Session Chairperson: César Cantú, Pyrotech, Mexico

13:30 Basic Methods for Assigning Firing System Addresses - Will Harvey, Finale Fireworks, Palo Alto, CA, USA

14:00 Automatic Translation of Effect Names from Spanish and other Languages to VDL - Will Harvey, Finale Fireworks, Palo Alto, CA, USA

14:30 "Secured E-Match" - Revolution: How to Set a Display Safely and Fast! - *Luigi L. P. Monetti*, Monetti Srl, Italy

15:00 BREAK

Session 7

Session Chairperson and Workshop Moderator: William Adan Palma, Pirotecnia Espectacular ADAN, Mexico

15:30 Workshop: Fireworks Regulations – Presentation by representatives from various countries, followed by a Question and Answer Period

All are welcome, including non-registered guests.

CLOSE

EXTRA PRESENTATION

"Normas Oficiales Mexicanas para Pirotecnia NOMs" - A discussion topic led by Jorge Márquez and Francisco Lleches from Pyrolab

All are welcome, including non-registered guests.

WEDNESDAY: May 8

Session 8

Session Chairperson: Sara Vergara, Promedsa, Mexico

8:30 The Pyrotechnics Guild International – Celebrating 50 Years of Collaboration between Professional and Amateur Pyrotechnists and Pyrotechnicians - Bruce Blom, Vice President, PGI Publications, Michael Scott Swisher, FSA Scot, John Steinberg, 1st Vice-President, PGI, USA

9:00 Testing for Fireworks Safety in a Global Market - *John D. Rogers*, American Fireworks Standards Laboratory (AFSL) Bethesda, MD, USA

9:30 Products and Processes Certification Procedure in Pyrotechnics - Ángel Santamaría Martín, Juan Casín Loya, Natalia Vázquez Viñuela, Isabel Amez Arenillas, and Blanca Castells Somoza, Laboratorio Oficial José María Madariaga (L.O.M.), Madrid, Spain

WEDNESDAY: May 8 continued

10:00 BREAK

Session 9

Session Chairperson: *Mitsuru Arai*, University of Tokyo, Japan, and *Jorge M. Márquez M.*, Lux Pirotecnia, S.A. de C.V., Mexico

Moderated Sessions 10:30 – 12:30

Each of the moderated session topics listed below will be assigned to a designated table. The number of participants at each table will be limited. Symposium attendees wishing to take part in the discussion of a particular topic will be required to place their name on the appropriate Moderated Session Form. This should be done prior to 9:00 on Wednesday.

Each topic will be presented for discussion in two separate, 45 minute sessions, with a short break between the two presentations. This will provide participants with the opportunity to attend two different topics, if they wish. Note that translation services will not be available for the moderated sessions; however, some moderators can converse in more than one language.

Tentative Topics and Moderators

- 1. Large-Diameter Mortar Design and Shell Launch Eric Krug
- 2. Safe Handling of Explosives Dietrich Eckhardt
- 3. Japan 16th ISF preparation and Japan society's fireworks support structure Sakaki Shinetsu
- 4. Music for Fireworks Martin Hildeberg and Dominykas Juknelevicius
- 5. Consumer Fireworks Retail Sales Facilities Reference to Tultepec Fireworks Market (Before and now rebuilt) *Shulin Nie, Jorge Marquez, Ettore Contestabile*
- 6. Opportunity to help improve VDL for understanding effect names in your native language *Will Harvey*
- 7. Resisting the Impact of an Exploding 6" (150 mm) Dud Aerial Display Shell: Design and Testing of a Protective Roof Pergola *Roger L. Schneider*
- 8. Modern Propellants Marc Speer
- 9. The Positive side of Fireworks as it relates to Tourism in Malta *Roderick Zammit* and *Lionel Gerada*
- 10. Developing Workplace Strategies for a Safety Mindset (English and Spanish) Alberto Navarro
- 11. Normas Oficiales Mexicanas para Pirotecnia (NOMs) Francesc "Paco" Lleches
- 12. The Impact of Safety Regulations on Market Growth John Rogers

WEDNESDAY: May 8 continued

12:00 CLOSE - Free Afternoon

THURSDAY: May 9

Session 10

Session Chairperson: Roderick Zammit, Executive Events, Malta Tourism Authority (MTA), Malta

8:30 Using Calculations to Determine and Control Electrostatic Hazards in Fireworks Manufacturing and Use (Part 1) - Roger L. Schneider, Rho Sigma Associates, Inc., USA

9:00 Using Calculations to Determine and Control Electrostatic Hazards in Fireworks Manufacturing and Use (Part 2) - Roger L. Schneider, Rho Sigma Associates, Inc., USA

9:30 Comparative Analysis of Fireworks Transport Dangerous Classification Test Results and **Default List** - *Zhang Guanghui, Xiao Jiayong, Tan Aixi, Jiang Zicheng, Qiu Lina, Tan Jingru*, Fireworks & Firecracker Inspection Centre of Hunan Entry-Exit Inspection and Quarantine Bureau, China, and *Y. S. Chua*, International Quality Assurance B.V., China

10:00 BREAK

Session 11

Session Chairperson: Dan Barker, FireOne - Pyrotechnics Management, Inc, USA

10:30 Determination of Measures for Safe Production Depending on the Hazardous Properties of Explosive Substances (Pyrotechnic Compositions) - *Lutz Kurth*, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

11:00 The Assessment of the Dangerous Characteristics of Pyrotechnic Composition and Articles (For Safe Production) - *Lutz Kurth*, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

11:30 Overview of ISO Standards of Fireworks - *Andrew Tang*, General Manager, TCPL, Deputy Secretary General, IFA, and Asian Section-China Director, Treasurer, ISFS, China

11:50 18th ISF Location Proposal Presentation

12:00 LUNCH

THURSDAY: May 9 continued

Session 12

Session Chairperson: Gilberto Caballero, Pyrotech, Mexico

13:30 Study on the General Safety Standard of Firework Machinery Touching Gunpowder - Shixing Ouyang, Liuyang Ouyang Technology Trade Co., Ltd., Liuyang, China

14:00 Effect of Carboxylate Coating on Degradation of Magnesium Based Fireworks - Yosuke Nishiwaki, Graduate School of Yokohama National University, Mitsuru Arai, The University of Tokyo, Takehiro Matsunaga, National Institute of Advanced Industrial Science and Technology, Mieko Kumasaki, Graduate School of Yokohama National University, Japan

14:30 Blue Strobe Pyrotechnic Compositions with Different Additives - *Dominykas Juknelevicius*, Faculty of Chemistry and Geosciences, Vilnius University, Lithuania, *Thomas M. Klapötke*, Department of Chemistry, Ludwig Maximilian University of Munich, Germany, and *Arunas Ramanavicius*, Faculty of Chemistry and Geosciences, Vilnius University, Lithuania

15:00 BREAK

Session 13

Session Chairperson: Osvaldo Avalos, Atomic Professional Fireworks, Mexico

Workshop: Siempre Seguro (Always Safe) – Presentation by representatives from various countries, followed by a Question and Answer Period

All are welcome, including non-registered guests.

CLOSE

FRIDAY: May 10

Session 14

Session Chairperson: Jorge Márquez, Lux Pirotecnia, S.A. de C.V., Mexico

9:00 Historical Aspects of Firework Safety: The Introduction of Potassium Chlorate and Potassium Perchlorate into Pyrotechny, Barry T. Sturman, Australia

9:30 The Cause of Muzzle Breaks - Ken G. Nixon, Pyrolock LLC, Pebble Beach, CA, USA

10:00 BREAK

FRIDAY: May 10 continued

Session 15

Session Chairperson: Colleen Sharon Patton, Promedsa, Mexico

10:30 Pyro Safety: Is it Enough, ... Or Until Someone Gets Hurt? - *Maque daVis*, Fremonstor Theatrical, Retired USA State Safety Inspector, Seattle, WA, USA

11:00 The Fireworks as a Symbol of Culture and Crafts in Tultepec - Mayra Denise Torres Hernández, Tultepec, State of México, México

11:30 Tultepec Magic and Color - *Claudia Hernández Sánchez*, H. Town Hall of Tultepec State of México, México

12:00 CLOSE

Closing Remarks and Ceremony