## **Table of Contents**

## 7<sup>th</sup> International Symposium on Fireworks October 6 – 10, 2003 Valencia, Spain

Paper		Page
2003-05	Bienz, A.F., "A Modern Goal-Orientated Risk-Based Concept for the Safety Assessment of the Handling of Explosives, Pyrotechnics and Propellants"	1
2003-26	Casín Loya, J. and J. Nieto Maestre, "Hazards Associated with the Storage of Fireworks in Public Stores"	23
2003-03	Chelladhurai, R. and I. Ramasamy, "Eco Friendly, Boom, to Fireworks"	39
2003-33	Clemente Ciscar, V., "Packaging Solutions for Fireworks"	49
2003-23	Coman, C., "Pyrotechnics Guild International: Fireworks for the Common Man and Woman"	69
2003-01	Contestabile, E., R. Guilbeault, D. Wilson an, B. von Rosen, "The Effect of Confinement on Fireworks and Other Energetic Materials"	75
2003-27	Contestabile, E., R. Cameron, and M. Phillips, "Considerations for Establishing a Large Consumer Fireworks Distribution Centre (A Case Study)"	93
2003-09	Cook, L., "Pyromotion - Advanced Pyromusical Software Program"	109
2003-11	daVis, M., "Bang! You're Deaf! Potential Hearing Loss from Operating Fireworks Shows"	125
2003-04	Domanico, J., "Regional Fireworks Clubs: A Fertile Breeding Ground for Creativity"	135
2003-36	Fernández Ramón, C. and J. Garcia Garzon, "Determination of «ONU Numbers » for 50 mm Roman Candles and 200 mm Aerial Shells"	143

2003-15	Gagnon, M. and P. Csukassy, "Les Feux d'Artifice de Montréal - 20 Ans Déjà (The Fireworks of Montréal - 20 Years Now)"	159
2003-21	Guijiaxiang, Qiuxiaoyu, Lihoushen, Wanjun, Yexiaohong, and Liujieguang, "Study of the Measurement of Thermal Stability Test at 75°C of Firework Compositions"	171
2003-24	Guijiaxiang, Yexiaohong, Liujieguang, LuZhong, HeXiaoHua, and ZenZhiZun, "Manufacture of 12-Meter Dropping Device for Fireworks Products"	183
2003-28	Heckman, J., "The American Pyrotechnics Association's Role in Representing the US Fireworks Industry in a Dynamic Era"	191
2003-34	Hendrick, J. and E. Contestabile, "Proposed Display Site Revisions"	195
2003-39	Hernandez, P., "Development of a New Lance Holder Strip and Series Matched Lance System"	221
2003-16	King, K., J. Waclawczyk, and D. Barker, "Explosion Incident Investigation and Methodology"	227
2003-10	Kurth, L., "How Safe are Fireworks? Experience with the Analysis of Accidents"	241
2003-35	Liujinbiao, "High Resolution Thermography Measurement for Distinguishing Low-Hazard Fireworks"	253
2003-13	Marriott, P., "The Art of the Pyromusical: 10 Years Reporting on the Montreal Competition"	261
2003-36	Martinez Diaz, C. and J.C. Sancho Rojas, "Application of Directive 98/37/EC to the Pyrotechnic Industry"	273
2003-25	Pérez Lorenzo, A., "Labour Risks Assessment in the Spanish Pyrotechnic Industry"	289
2003-08	Ridley, W. and R. Bowes, "The Authorization of Fireworks In Canada: The Use of Ion Chromatography and X-Ray Fluorescence Spectroscopy for the Chemical Analysis of Pyrotechnic Compositions"	305
2003-05	Schroyer, K. and D. Barker, "An Innovative Approach That Combines Manual, Semi-Automated, Fully Automated, and Wireless Capability Into a Single Integrated Cost Effective	

	Capacitive Discharge Firing System"	319
2003-37	Shibamoto, H., C. Touhara, K. Chida, T. Hagiwara, F. Hosoya, and M. Yamaguma, "Electrostatic Ignition Risk of Zirconium Fine Dust"	341
2003-19	Weeth, C.P., "M/V Hanjin Pennsylvania: Explosions at Sea"	351
2003-14	Yexiaohong, Guijiaxiang, Zhouweijiang, and Liujieguang, "Analysis and Study on the Environmental Protection Affairs for Fireworks"	371
2003-15	Monetti, L.P., "Pyroclock: A System Designed to Facilitate Assembly of Pyrotechnic Chains"	379
2003-22	Navarro, A., "Virtual Fireworks Simulation as a New Tool for Pyrotechnic Manufacturing and Choreography"	389
2003-40	Dufresne, I, and J. Ougie, "Les Nuits De Feu" In Oise on the Grounds of the Château De Chantilly (18th And 19th Of June 2004)"	397
2003-41	Link, R.A., G. Delbridge and D. V. Ritzel, "Computational Modeling of a Steel Tube Subjected to Internal Fireworks Explosion"	405
2003-06	Boucher, C., G. Bossarte and P. McKinley, "Electronic Pyrotechnic Ignitors: Technology Status Report"	419
2003-29	Schneider, R.L., 'Ignition of Pyrotechnic Compositions Under Vacuum and Rarefied Atmospheric Conditions: Prospects for a Fireworks Display in Outer Space'	A
2003-31	Schneider, R.L., E. Contestabile, and L. Schneider, "The Use of X-Rays for the Nondestructive Examination and Evaluation of Fireworks"	I