

## 2018 IPS Seminar Posters – as of 09-MAR-2018

- P-1 *Solid State Fuel-Air Explosives with Enhanced Power and Stability*  
Robert Weinheimer (USA) / Stefan Kolev, Tzvetomir Tzonev (BULGARIA)
- P-2 *Mesoscale Numerical Analysis of Thermal-mechanical Responses of Impacted Polymer-bonded Explosives*  
Xinjie Wang, Yanqing Wu, Fenglei Huang (CHINA)
- P-3 *Green Replacements for Lead-Containing Detonators*  
Manuel Joas, Helmut Zoellner (GERMANY)
- P-4 *Optimum Design of the Dispersion System by using an Airbag Expansion*  
Hyun-Jin Ko (S. KOREA)
- P-5 *The Influence of Electrostatic Discharge Damage on the Output Performance of Detonators*  
Li Zhipeng, Wen Yushi, Long Xingping, Dai Bin (CHINA)
- P-6 *The Influence of Beam Energy Profile on the Flight Behavior of a Laser-Driven Flyer*  
Liang Wang, Duo Tang, Yuan Gao, Zhihao Wang, Yong Li, Xiangbo Ji, Wenzhi Qin (CHINA)
- P-7 *Effect of Nitramine on Physical, Mechanical, Ballistics and Sensitivity Properties of Composite Propellant*  
Rekha Sangtanyi, Rohit Rajkaumar, Amit Kumar, Arvind Kumar, Manoj Gupta (INDIA)
- P-8 *Sensitivity Analysis for a Split Type Pyrolock using Mathematical Model*  
Dae-Hyun Hwang, Jae-Hung Han (S. KOREA)
- P-9 *An Experimental Study on the Performance of Pressure Cartridge in a Small Dynamic Volume Chamber*  
Yeungjo Lee, Dae-Hyun Hwang, Jae-Hung Han, Dongjin Kim (S. KOREA)
- P-10 *Iodine Absorption Measurements in Optically Dense Fields*  
Alex Brown (USA)
- P-11 *Thermal Analysis of Some Phase-stabilized Ammonium Nitrate*  
Aisuke Toda, Yuto Tanaka, Shingo Date (JAPAN)
- P-12 *Environmentally Sustainable Gasless Delay Compositions for Fuzes, Mn/MnO<sub>2</sub> and W/MnO<sub>2</sub> Pyrotechnic Delay Studies*  
Jay Poret, Anthony Shaw, Lori Groven, William Eck, Joshua Koenig, Eric Miklaszewski, Steven Son (USA)
- P-13 *Environmentally Sustainable Gasless Delay Compositions for Fuzes, Fuze Prototyping in M201A1 and M213/M228 Hardware*  
Anthony Shaw, Jay Poret, Lori Groven, William Eck, Joshua Koenig, Jason Brusnahan (USA/AUSTRALIA)

- P-14 *Numerical Simulation for the Thermal-Mechanical Response for PBX Explosives with Confinements at Different Heating Rates*  
Xiaoli Zhang, Tao Hong(CHINA)
- P-15 *Syringe Deposited Thermite for On-Chip Energetics*  
Matthew Ervin (USA)
- P-16 *The Influence of Content of Aluminum Nanoparticle Additives on the Laser Ignition of B/KNO<sub>3</sub>*  
Duo Tang, Xiangbo Ji, Yuan Gao, Yong Li, Wenzhi, Qin, Liang Wang (CHINA)
- P-17 *Study on Stability of a Converging Cylindrical Shock after Perturbed by a Sinusoidal Air/SF<sub>6</sub> Interface*  
Fan Lei, Qiubo Fu (CHINA)
- P-18 *Issues and Observations During Scale-up of Pyrotechnic Flare Compositions in Resonant Acoustic Mixers*  
Christina Yamamoto, Eric Miklaszewski, Joel Dunham, Anthony Shaw (USA)
- P-19 *Effect of Various Epoxies on Processing, Mechanical Properties, and Performance of Pyrotechnic Compositions*  
Joel Dunham, Christina Yamamoto, Eric Miklaszewski, Anthony Shaw, Robert Gilbert Jr., Jay Poret (USA)
- P-20 *The Effects of Wireline Industry Cleaning Fluids on the Fluid Desensitized Perforator Initiation System*  
Erika Nieczkoski, Vilem Petr (USA)
- P-21 *Replacement of Barium Chromate in the Traditional Tungsten Delay*  
Barbara Hadrava, Anthony Shaw, Jay Poret, Lori Groven (USA)
- P-22 *The Role of Particle Size on the Combustion of Boron Carbide/Sodium Periodate Biocidal Formulations*  
Lance Kotter, Lori Groven (USA)
- P-23 *Synthesis and Characterization of CL-20 Cocrystals*  
Clinton Chapman, Lori Groven (USA)
- P-24 *A Brief History of Pyrotechnic Materials in the Air Bag Industry*  
Robert St. John (USA)
- P-25 *Hangfire Causes in Small Arms Cartridges*  
Randall Busky (USA)
- P-26 *Waterless Granulation of Plastic Bonded Explosive (PBX) Pressing Powders via Resonant Acoustic Mixing (RAM)*  
R. Ross Nellums, Jon Kosak, Laken Hartman (USA)

- P-27 *Electrodialysis, a Novel Method to Purify Nitrocellulose*  
Richard Bouma, Antoine Kemperman, Harmen Zwiinberg, Zandrie Borneman, John Zevenbergen (NETHERLANDS)
- P-28 *Continuous Production of Microcrystalline Nitrocellulose*  
Jos van den Elshout, Leon Geers, Coen Schuurbijs, Joost van Lingen (NETHERLANDS)
- P-29 *Modelling Spigot Impact on Explosives in the Presence of an Air Gap*  
John Curtis (UK)
- P-30 *Chemical Analysis of Red Smokes By-Products using Ambient Ionization Mass Spectrometry*  
Patrick Fedick, Kelly Thoreson, Douglas Papenmeier, Jonathan Dilger, R. Graham Cooks (USA)
- P-31 *Beating the Heat: Novel Synthesis of Triazole and Tetrazole Based Compounds for Use in Spectrally Matched IR Pyrotechnic Countermeasure Formulations*  
Joshua W. Gebhardt, Jason S. Brusnahan, Martin R. Johnston (AUSTRALIA)