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 Sangtyani, 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/MnO₂ and W/MnO₂
     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/KNO₃
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/SF₆ 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 Zwiienenberg, Zandrie Borneman, John Zevenbergen (NETHERLANDS)

P-28  Continuous Production of Microcrystalline Nitrocellulose
   Jos van den Elshout, Leon Geers, Coen Schuurbiers, 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)