

DRAFT SCHEDULE FOR 43rd IPS SEMINAR

MON	MON TALKS	Time (min)	MON (hrs)
	introduction	10	8:30-8:40
	welcome	10	8:40-8:50
	A-1 KEYNOTE 64. Blomquist, Harry; Takata Airbag Propellant Degradation	50	8:50-9:40
A-2	18. Date, Shingo; Measurement of Flame Temperatures of Some Azodicarbonamide/Ammonium Nitrate Based Mixtures	20	9:40-10:00
A-3	47. Tanaka, Masafumi; Active Interruption of an Ammonium Perchlorate Composite Propellant Combustion and its Reignition in a Motor	20	10:00-10:20
A-4	13. Zhang, Haonan; Ignition and Combustion Performance of Photosensitive Propellant for Laser-Augmented Chemical Propulsion	20	10:20-10:40
	break/posters	30	10:40-11:10
B-1	21. Griffiths, Trevor; Pyrotechnic Sound Compositions	20	11:10-11:30
B-2	58. Miklaszewski, Eric; Electromagnetic Amplification of Pyrotechnic Emissions	20	11:30-11:50
B-3	79. Rusan, Magdalena; The Development of Barium-Free Hand-Held Sparkler Firework	20	11:50-12:10
	lunch	80	12:10-1:30
	C-1 INV 1 72. Rajagopal, Chitra; Initiatives in Explosive Safety Management	50	1:30-2:20
C-2	32. Poulson, Grahame; Mitigating Inadvertent Ignition of Pyrotechnic Stores, DSTL/CP105716 v1	20	2:20-2:40
C-3	54. Csernica, Chris; Lessons from LCAAP Explosion and Energetic Testing Protocol to Address Safe Working Parameters of Primary Explosives	20	2:40-3:00
C-4	63. Hall, Scott; Improvement of Low Temperature Autoignition Material for Active Mitigation of Rocket Motors	20	3:00-3:20
	break/posters	30	3:20-3:50
D-1	36. Golobic, A.M.; On the Fly Mixing and 3D Printing of Al/CUO Thermite for Controlling Reactivity	20	3:50-4:10
D-2	40. Bukovsky, Eric; Polymer Resin Systems for Precision Direct-Ink-Write Printing of Thermite-Loaded Inks	20	4:10-4:30
D-3	75. Brown, Cameron; Characterizing the Material Structure and Deflagration Profile of Additive-Manufactured Energetic Materials	20	4:30-4:50
D-4	77. Doorenbos, Zac; Printed Primers for Next-Gen Ammunition	20	4:50-5:10
D-5	90. van Lingen, Joost; 3D Printing of Gun Propellants	20	5:10-5:30

TUES	TUES TALKS	Time (min)	TUES (hrs)
E-1 INV 2	73. Groven, Lori; Advanced Manufacturing of Energetic Materials: Rheology to Application	50	8:00-8:50
E-2	39. Berthe, Jean-Edouard; Nanocrystallization of Ammonium DiNitramide (ADN) by Spray Flash Evaporation (SFE)	20	8:50-9:10
E-3	57. Miklaszewski, Eric; Safer Resonant Acoustic Mixing Methods for High-Volume Production of Pyrotechnics	20	9:10-9:30
E-4	60. Puszynski, Matthew; Using RAM Technology to Mix Primary Explosive Based Composites for Additive Manufacturing	20	9:30-9:50
	break/posters	30	9:50-10:20
F-1	23. Focke, W.W.; Gasless Pyrotechnic Time Delay Compositions – A Review	20	10:20-10:40
F-2	53. Tichapondwa, Sheperd; Manganese Fueled Pyrotechnic Time Delay Composition	20	10:40-11:00
F-3	61. Puszynski, Jan; Experimental and Modeling Studies of Environmentally Benign Tunable Pyrotechnic Delay Systems	20	11:00-11:20
F-4	74. Shaw, Anthony; Titanium-Based Igniter System for Hand Grenade Fuzes	20	11:20-11:40
	grp photo/lunch		
G-1 YSA	11. Polk, Ameer; Pyrotechnically Generated and Disseminated Aerosol for Bio-Agent Defeat	50	1:20-2:10
G-2	8. Küblböck, Teresa; Multi-Colored Smoke Signals Applying the Concept of Fuel Mixes	20	2:10-2:30
G-3	12. Diviacchi, Giancarlo; Development and Testing of Hygroscopic Stannous Chloride	20	2:30-2:50
	break/posters	30	2:50-3:20
H-1	15. Wang, Chengai; Design and Performance of a Micro Interrupted Igniter Train	20	3:20-3:40
H-2	17. Pouchairet, Jean-Laurent; Development of a Miniature, Fully Integrated, Multipoint Initiation System for Flares: CASSIS	20	3:40-4:00
H-3	22. Glavier, Ludovic; Ariane 6 Launcher: New Challenges for Pyrotechnical Functions	20	4:00-4:20
H-4	52. Chamayou, Bernard; A Safety Criteria for Opto-Pyro Trains	20	4:20-4:40
H-5	55. Csernica, Chris; M856A1 Tracer Composition Studies – Effects of Configuration on Performance	20	4:40-5:00

Session	Session Title	Session	Session Title
A	Propellants	I	Theory & Computation
B	Sound, Sparkle, & Special Effects	I	Theory & Computation (continued)
C	Safety	J	Nanoenergetics
D	3D Printing	K	Explosives & Detonics
E	Advanced Manufacturing Technologies	L	Green Pyrotechnics
F	Delays	M	Measurement Methods
G	Smoke	N	System Life Cycle Management
H	Integrated Systems & Devices	O	Initiators
		P	Posters

WED	WEDS TALKS	Time (min)	WED (hrs)
I-1	9. Lu, Jing Ping; Comparison of Air Blast/Afterburning Modelling with Height of Burn Tests	20	9:00-9:20
I-2	20. Klapötke, Thomas; Energetic Materials Designing Bench (EMDB)	20	9:20-9:40
I-3	38. Knapp, Sebastian; Modelling of Thermite Mixtures	20	9:40-10:00
break/posters		30	10:00-10:30
I-4	51. Wang, Wanjun; Study on the Acceleration Characteristics of a Polyimide Flyer Driven by an Electric Explosion and Its Impact on LIF Window Using a Dynamic Simulation Model and PDV Test	20	10:30-10:50
I-5	76. Bohn, Manfred; Effect of HMX Distribution and Plasticizer Content Variations on the DMA Loss Factor of HTPB-IPDI Binder	20	10:50-11:10
I-6	83. Busky, Randall; The Brinkman Number as a Dimensionless Scale-up Factor for Colored Smoke Generation	20	11:10-11:30
posters		30	11:30-12:00

FRI	FRI TALKS	Time (min)	FRI (hrs)
N-1	5. Shoham, Tzvi; An Experimental Method for Rocket Motors Life Extension	20	8:30-8:50
N-2	37. Millar, Rebecca; Flare Life Cycle Analysis	20	8:50-9:10
N-3	45. Wilharm, Caroline; Accelerated Aging of MTV	20	9:10-9:30
N-4	82. Sammour, Mohammad; Ballistic Performance Assessment is a must for Shelf Life Assessment of Rocket Motors	20	9:30-9:50
N-5	85. Clapsaddle, Brady; Moisture Stable Igniter Composition	20	9:50-10:10
break		20	10:10-10:30
O-1	33. Qing-chou, Chen; Detonation Build-up Process of Exploding Foil Initiators	20	10:30-10:50
O-2	43. Li, Yong; Research on the Ignition Performances of Al/CuO Energetic Igniters	20	10:50-11:10
O-3	46. Palardy, Marc; Development of Low Toxicity Primer Composition	20	11:10-11:30
parting rmks			

THUR	THURS TALKS	Time (min)	THUR (hrs)
J-1 FCB 1	62. Martin, Cedric; Nanosized Thermites and Explosives (NSTEX) Compositions: The Bridge Between Pyrotechnics and Explosives	50	8:30-9:20
J-2	1. Spitzer, Denis; High Resolution Raman Spectroscopies: New Characterisation Methods Developed to Investigate the Structure of Nanometric Energetic Formulations	20	9:20-9:40
J-3	6. Klaumünzer, Martin; Advanced High Energy Nanomaterials via Continuous Spray Flash Evaporation (SFE)	20	9:40-10:00
J-4	50. Tan, M.L.; Thermochemical and Pressure Studies of Aluminum/Nickel Oxide/Fluoropolymer Nano-Energetic Composites	20	10:00-10:20
break/posters		30	10:20-10:50
K-1	3. Weinheimer, Robert; Solid State Fuel-Air Explosives	20	10:50-11:10
K-2	66. Maestas, Michael; High Explosively Driven Plate Fragmentation and Impact Characterization	20	11:10-11:30
K-3	67. Lozano, Eduardo; Modeling Detonation in Non-Ideal Explosives using High-Order Shock Capturing Methods	20	11:30-11:50
K-4	68. Lozano, Eduardo; Characterizing the Detonation and Blast Wave Characteristics from Commercial Detonating Cord	20	11:50-12:10
K-5	78. Sabatini, Jesse; Synthesis and Characterization of Some New Melt-Castable Explosive Materials	20	12:10-12:30
lunch			
L-1 FCB 2	16. Glück, Johan; The Development of Strontium-/Chlorine-Free Flare and Strobe Formulations Based on Lithium	50	2:00-2:50
L-2	31. Dufter, Alicia; A Chlorine-free Pyrotechnic Strobe System for Multiple Colors	20	2:50-3:10
L-3	80. Rusan, Magdalena; The Investigation of Environmentally Benign Purple-Colored Pyrotechnics	20	3:10-3:30
break/posters		30	3:30-4:00
M-1	19. Poret, Jay; A Multi-Sensor System for Measuring the Irradiance and Velocity of Live-Fired Red-Light-Emitting Pyrotechnic Tracers	20	4:00-4:20
M-2	48. Jacob, Adam; Measurement of Combustion Byproducts in Small Arms Blowback Gases	20	4:20-4:40
M-3	88. McNesby, Kevin; Edgerton Shadowgraphy and Schlieren Imaging of Explosions using a Pulsed Light Source	20	4:40-5:00
business		30	5:00-5:30