

parari 2019

Australian Explosive Ordnance Safety Symposium

SAFE EO FOR THE WARFIGHTER
THROUGH INNOVATIVE TECHNOLOGY & CULTURE

(V0.10) Time	Stream A - Adams Auditorium 1	Stream B - Adams Auditorium 2	Stream C - LT1 (Lecture Theatres South)	Stream D - LT3 (Lecture Theatres South)
Day 1 - 05 November				
08:00 - 09:00	Delegate Registration & Networking Time			
09:00 - 09:05	Opening Introduction - Colonel Arthur Tsamis, Director Ordnance Safety			
09:05 - 09:40	Opening Keynote - Air Marshall Warren McDonald, AM, CSC, Chief of Joint Capabilities			
09:40 - 10:20	Energetic Materials Keynote - Dr Alfred G. Stern, Chief Scientist for Energetic Materials, Naval Surface Warfare Center Indian Head Explosive Ordnance Disposal Technology Division			
10:20 - 10:55	Morning Tea			
10:55 - 11:35	US Regulator Keynote - Mr Thierry Chiapello, Executive Director, US Department of Defense Explosives Safety Board			
11:35 - 12:35	Space Shuttle 1 - Acting Consulting Training Australia			
12:35 - 13:35	Lunch			
13:35 - 14:35	Space Shuttle 2 - Acting Consulting Training Australia			
14:35 - 14:45	Movement Break			
	Session 1A - <i>Energetic Materials Science</i> Chair - Dr Ian Powell	Session 1B - <i>Safety and Suitability for Service</i> Chair - CAPT Nigel Smith, RAN	Session 1C - <i>EO Depots</i> Chair - Mr Martijn van der Voort	/
14:45 - 15:15	Thermite additive manufacturing feedstocks: improvements to safety and handling as compared to traditional thermite preparations La Vars et al, DST Group	Evolving S3 Process and Practice in EMB Tilbrook & White, EMB	Modernising NZDF's Ammunition Facilities - Challenges and lessons Learnt Beckman, NZ Defence Munitions Management Group	/
15:15 - 15:45	Next Generation Munitions: Nano Propellants for 3D Printing Provatas & Stephenson, DST Group	Lessons Learnt from Uncommanded Marine Marker Activation – A Case Study Robertson, DOS	Management of Contractor Operations in the Explosives Manufacturing Landscape Bigej & Robertson, DDESB	/
15:45 - 16:20	Afternoon Tea			
	Session 2A - <i>Australian-manufactured Ordnance</i> Chair - COL Paul Smith	Session 2B - <i>Risk management</i> Chair - Mr Craig Fallshaw	Session 2C - <i>Facilities and Contractor Operations</i> Chair - CAPT Jacqui King, RAN	/
16:20 - 16:50	An Overview of Warhead Initiation and Reliability Testing Ashcroft & Bird, EMB	Understanding the application of human factors in process safety Kerin, IChemE	Building Sustainable (SMS) Models for the Future Operation of Defence Manufacturing Facilities - Planning a SMS for agile sustainment activities on a single-user facility Warrender, NIOA	/
16:50 - 17:20	Modelling of BLU Warhead Initiation Lu & Ashcroft, DST Group	Managing Ordnance Munitions Explosives (OME) Risk When the Normal Rules Do Not Fit MacNaught, Defence Safety Authority, UK	Construction Projects at Active EO Depots Nothdurft, Thales Australia	/
17:20 - 18:50	Welcome Drinks			

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Day 2 - 06 November				
08:00 - 09:00	Networking Time			
09:00 - 09:30	Day 2 Opening Keynote - Colonel Arthur Tsamis, Director Ordnance Safety			
09:30 - 09:40	Movement Break			
	Session 3A - <i>Lifecycle Threats and Surveillance Analysis</i> Chair - Mr Bob MacNaught	Session 3B - <i>Rocket Motor Manufacturing & Blast</i> Chair - Mr Matt Ferran	Session 3C - <i>Surveillance and EO Health Monitoring</i> Chair - WGCDR Simon Bird	/
09:40 - 10:10	Overview of Personnel-Borne Electrostatic Discharge Parameters to Aid in the Assessment of Electro-Explosive Hazards Neethling, EMB	The Australian National Facility for Physical Blast Simulation: Performance characterisation and applications Remennikov, University of Wollongong	Update on the EO Safety and Reliability Program O'Rourke & Dawson, EMB	/
10:10 - 10:40	Surveillance Testing of EO; when is the True Time of Failure? Wilcock, EMB	Rocket Propellant Comparison: Traditional Planetary Mixing and Resonant Acoustic Mixing Smith et al, DST Group	CAD/PAD Digital Twin Program Overview Bigej, NSWC IHEODTD	/
10:40 - 11:20	Morning Tea			
	Session 4A - <i>Energetics Toxicity and Health</i> Chair - Dr John Reid	Session 4B - <i>Blast</i> Chair - Dr Greg Wilcock	Session 4C - <i>Fuzing Technology</i> Chair - Dr Brian Fuchs	/
11:20 - 11:50	Determining emission products to which personnel may be exposed, when firing ammunition Van Hulst, TNO	Safe Blast Emulation Williams, Layer 3 Services	Case study: 155mm Fuze Non-Compliance with Design Standards – Outcomes and Lessons Learnt Harradine, EMB	/
11:50 - 12:20	Identifying and Controlling Potential Environmental Impacts of Explosive Ordnance - An Australian Perspective Alder, EMB	Blast Hazards in Risky Situations Stewart, University of Newcastle	New S&A and Initiation Technologies For Safer and More Effective Munitions Perrin, Junghans Defence	/
12:20 - 12:50	Shell Shock: Understanding The Link Between Shock Event Cavitation Injury, Post Traumatic Stress (PTS) And Other Neurodegenerative Disorders Schmied & Brooks, LAR	TNT and Blast Equivalency Characterization of Energetic Materials van der Voort, MSIAC	Capability Development of Fuze Interrupter Effectiveness Testing within Australia Smith-Roberts, DOS & JPEU	/
12:50 - 13:50	Lunch, including Poster Session			
13:50 - 14:50	Day 2 Strategic Keynote and Q&A Session - Dr Malcolm Davis, Australian Strategic Policy Institute			
14:50 - 15:20	Afternoon Tea			
	Session 5A - <i>Regulation and Enterprise</i> Chair - Mr Lyndon Tilbrook	Session 5B - <i>Insensitive Munitions</i> Chair - Dr Ian Lochert	Session 5C - <i>Surveillance and EO Health Monitoring cont'd</i> Chair - CMDR Chris McGregor	/
15:20 - 15:50	Explosives Act Thematic Review Potter, EOB	New Thermobaric Lining and Venting Integration for Enhanced IM and Lethal Performance Garfield, NAWCWD - CL	Optimisation of Rocket Motor Surveillance Lorenzin et al, DST Group	/
15:50 - 16:20	Enforcement, How To Get It Right - A Methodology Gillstroem McLean, Defence Safety Authority, UK	IM Technologies Developmental Transitions Fuchs, US Army CCDC ARC	State of the Art about the Use of Data Loggers in Munitions Health Management Ferran, MSIAC	/
16:20 - 16:50	Explosive Ordnance Program Looking Forward Perry, EOB	NATO AC326 work to update IM Test Standards Tomasello, USN	RuBee Real-World Trial Seccombe & White, Thales Australia & EMB	/
19:00 - 22:30	Symposium Dinner, Australian War Memorial ANZAC Hall			

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Day 3 - 07 November					
08:00 - 09:00	Networking Time				
09:00 - 09:35	Day 3 Opening Keynote - Brigadier Haydn Kohl, Director General Explosive Materiel				
09:35 - 10:05	Morning Tea				
	Session 6A (Unchaired)	Session 6B (Unchaired)	Session 6C (Unchaired)	Session 6D - <i>Energetic Materials Science Cont'd</i> Chair - Dr John Reid	
10:05 - 10:35	WORKSHOP - Safety Assurance for the Warfighter Bennett et al, EMB	networking time	networking time	Novel Pyrotechnic Compositions for Pyrotechnically-Pumped Lasers Kuznetsov, DST Group	
10:35 - 11:05			TUTORIAL - Global Harmonization System (GHS) Chapter 2.1 "Explosives" Current Revision Initiative at the United Nations (UN) Ford, SMS	Effects of Slow Cook-Off Heating Rates on Reaction Severity Robinson, NAWCWD - CL	
11:05 - 11:35				WORKSHOP - Defence Explosives Safety Regulatory Framework - Focusing on the Safety Outcome King, DOS	Cubanes as fuels for spectrally matched infrared countermeasures Dallaston, UQ
11:35 - 12:05				Application of Graphene Oxide with Energetic Materials Chen, UQ	
12:05 - 13:05	Lunch, including Poster Session				
	Session 7A (unchaired)	Session 7B (Unchaired)	Session 7C (Unchaired)	Session 7D - <i>Energetic Materials Science Cont'd</i> Chair - CAPT Nigel Smith, RAN	
13:05 - 13:35	WORKSHOP - RADHAZ to Ordnance Assessment - EED Characterisation to Safe Separation Neethling, EMB	WORKSHOP - Spotlight on Safety Acting Consulting Training Australia	WORKSHOP - EO Health Monitoring O'Rourke, EMB	Applied Weapon Vibration Expertise in Support of Aerospace Explosive Ordnance Safety Conser & Olorenshaw, DST Group	
13:35 - 14:05				Fragmentation from Detonations and Less Violent Munition Responses van der Voort, MSIAC	
14:05 - 14:35					
14:35 - 15:05	Afternoon Tea				
15:05 - 15:35	Closing Keynote - Air Commodore Wade Evans, Director General Explosive Ordnance				
15:35	Symposium Close				