



PROMOTING NATIONAL SECURITY SINCE 1919

2016 INSENSITIVE MUNITIONS & ENERGETIC MATERIALS TECHNOLOGY SYMPOSIUM

Advanced IM / EM Solutions: Minimizing Risk to our Warfighters and Delivering Needed Performance, Security, and Readiness to Address Evolving Threats in our World

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SEPTEMBER 12 - 15, 2016 WWW.NDIA.ORG/MEETINGS/6550 GAYLORD OPRYLAND HOTEL - NASHVILLE, TN

MONDAY, SEPTEMBER 12

4:00 pm - 5:30 pm

CONFERENCE REGISTRATION AND WELCOME RECEPTION - Magnolia Courtyard

TUESDAY, SEPTEMBER 13

7:00 am - 5:00 pm	CONFERENCE REGISTRATION - Hermitage Foyer
7:00 am - 8:00 am	CONTINENTAL BREAKFAST
8:00 am - 8:10 am	WELCOME ADDRESS - Hermitage CD
8:10 am - 8:40 am	KEYNOTE ADDRESS
8:40 am - 9:00 am	IM AWARDS Presenter: Michael Sharp, MSIAC

9:00 am - 10:20 am

PLENARY PAPER PRESENTATIONS

Session Chair: Mike Ervin, BAE Systems

9:00 AM	18748	JIMTP STRATEGY AND PATH FORWARD	Mr. Anthony Di Stasio, USA
9:20 AM	18709	MSIAC - REFLECTION ON 25 YEARS SUPPORTING THE MUNITIONS SAFETY COMMUNITY	Dr. Michael Sharp, Belgium
9:40 AM	18770	GRIMEX (GREEN IM EXPLOSIVE): DEVELOPMENT OF NOVEL IM COMP B REPLACEMENTS BASED ON GREEN TNT AND RDX REPLACEMENTS	Dr. David Price, USA
10:00 AM	18778	INSENSITIVE MUNITIONS INDUSTRY CONTRIBUTION FOR STANAG AND AOP IMPROVEMENTS	Mr. Yves Guengant, France

10:20 am - 10:50 am NETWORKING BREAK AND POSTER SESSION - Cheekwood ABC

10:50 am - 12:30 am

BREAKOUT PRESENTATIONS

SESSION 2	SESSION 2A - TESTING I		ROOM: HERMITAGE C	SESSION CHAIR: KEN GRAHAM
10:50 AM	18758 HIGH PERFORMANCE PROPELLANT FRAGMENT IMPACT TESTING: SMALL-SCALE AND FULL-SCALE		Dr. Eric Harstad, USA	
11:10 AM	18829	PARAMETERS INFLUENCING THE RESPONSE OF MSP-1 PROPELLANT SUBJECT TO FRAGMENT IMPACT		Dr. Mark Pfeil, USA
11:30 AM	18724		SMALL SCALE FRAGMENT ATTACK TESTING ON THE LMM MISSILE BOOST MOTOR AND THE INFLUENCE OF THE CONDUIT FORM ON XDT THRESHOLD	
11:50 AM	18787	EXPLOSIVENESS TESTING OF PRESSED PBX		Mr. Philip Cheese, UK
12:10 AM	18788	HEAVY FRAGMENT IMPACT TESTIN	IG OF PBX FILLED BOMBS AND SHAPED CHARGES	Mr. Nathan White, UK

SESSION 2B - FORMULATIONS I		LATIONS I	ROOM: HERMITAGE D	SESSION CHAIR: STEVE NICOLICH
10:50 AM	18813	FORMULATION AND TESTING OF G	FORMULATION AND TESTING OF GAGTFA BASED EXPLOSIVES	
11:10 AM	18769	EVALUATION OF ARLX-4201 AS TH THE 155 MM PROJECTILE	EVALUATION OF ARLX-4201 AS THE M1156 (NA29) PGK FUZE BOOSTER FORMULATION FOR THE 155 MM PROJECTILE	
11:30 AM	18761	INSENSITIVE MUNITIONS - DEVEL FORMULATIONS	INSENSITIVE MUNITIONS – DEVELOPMENT AND QUALIFICATION OF NEW MELT-CAST FORMULATIONS	
11:50 AM	18805	THE PATH FORWARD FOR ALUMINIZED PRNQ FORMULATIONS		Dr. Eric Bukowski, USA
12:10 AM	18791	REDUCED SENSITIVITY LX-14 MAI	N CHARGE	Mr. Brian Alexander, USA

12:30 am - 1:50 pm

LUNCH - Old Hickory

1:50 pm	1 - 3:10 pi	n BREAKOUT	PRESENTATIONS	
SESSION 3A - SLOW COOK-OFF		COOK-OFF	ROOM: HERMITAGE C	SESSION CHAIR: GERT SCHOLTES
1:50 PM	18741	U.S. SLOW COOK-OFF CONSORTIL	IM	Dr. Heather Hayden, USA
2:10 PM	18808	08 AN APPROACH TO SIMULATE THE COOK-OFF RESPONSE OF LARGE MUNITIONS USING SMALL SCALE TESTS AND ANALYSIS		Dr. N. Albert Moussa, USA
2:30 PM	18814 THERMAL MODELING OF SLOW COOK-OFF RESPONSES		Dr. Markus Graswald, Germany	
2:50 PM	SLOW COOK-OFF OPEN DISCUSSION		Mr. Gert Scholtes, Netherlands	

SESSION 3	SESSION 3B - ENERGETIC MATERIALS I		ROOM: HERMITAGE D	SESSION CHAIR: ROY KELLY
1:50 PM	18729	CHARACTERIZATION OF 1-PROPYL	CHARACTERIZATION OF 1-PROPYL-2-NITROGUANIDINE (PRNQ)	
2:10 PM	18767	INFUSE™ NITROCELLULOSE: A NE	W APPROACH TO GUN PROPELLANT TECHNOLOGY	Dr. Stephen Velarde, USA
2:30 PM	18719	COMPATIBILITY INVESTIGATIONS C RICH AZOLE [BISTETRAZOLYLAMIN	NN NOVEL ENERGETIC FORMULATIONS OF NITROGEN IE(BTA)]	Dr. Nimesh Sasidharan, Singapore
2:50 PM			Dr. Sarah Headrick, USA	

3:10 pm - 3:30 pm NETWORKING BREAK AND POSTER SESSION - Cheekwood ABC

3:30 pn	n - 5:10 pi	m Breakout	PRESENTATIONS	
SESSION 4	SESSION 4A - POLICY 3:30 PM 18718 NAVY INSENSITIVE MUNITIONS (IN		ROOM: HERMITAGE C	SESSION CHAIR: EMMANUEL SCHULTZ
3:30 PM			M) PROGRAM PLANNING AND EXECUTION	Mr. Donald Porada, USA
3:50 PM	M 18720 BENEFITS OF INSENSITIVE MUN		IONS ON STORAGE AND OPERATIONS	Mr. Benjamin Keefe, Belgium
4:10 PM	18725	CHANGES TO NATO IM POLICY AND FULL SCALE TESTING DOCUMENTS		Mr. Florian Pechoux, France
4:30 PM	PM 18816 MSIAC AUDIT PROCEDURE OF DGA MISSILE TESTING		Mr. Florian Pechoux, France	
4:50 PM	18821	ARDEC GUN PROPULSION SCIENC	CE & TECHNOLOGIES OF INTEREST	Mr. Elbert Caravaca, USA

SESSION 4	SESSION 4B - PROCESSING I		ROOM: HERMITAGE D	SESSION CHAIR: SARAH HEADRICK
3:30 PM	18753	QUALIFICATION OF GRANULAR IMX-104		Mr. Keyur Patel, USA
3:50 PM	18789	PILOT PLANT DEMONSTRATION OF A ONE-POT DEMN PROCESS		Dr. Stephen Velarde, USA
4:10 PM	2016-3	GRANULAR IMX-104 IMPROVED MANUFACTURING		Ms. Xueling Zhao, USA
4:30 PM	2016-4	Demn X "One-Pot" loading me	THOD	Mr. Eric Boykin, USA

5:10 pm SESSIONS ADJOURN

5:30 pm - 7:00 pm SYMPOSIUM RECEPTION - Waters Edge

WEDNESDAY, SEPTEMBER 14

- 7:30 am 11:30 am CONFERENCE REGISTRATION Hermitage Foyer
- 7:30 am 8:30 am CONTINENTAL BREAKFAST

8:30 am - 10:10 am BREAKOUT F			PRESENTATIONS	
SESSION 5	a - Fast C	COOK-OFF	ROOM: HERMITAGE C	SESSION CHAIR: TOM SWIERK
8:30 AM 18708 TURNING UP THE HEAT: SCIENCE		TURNING UP THE HEAT: SCIENCE O	of Cookoff Workshop Findings	Dr. Matthew Andrews, Belgium
8:50 AM	18747	ATMOSPHERIC MEASUREMENTS I	N PROPANE AND LIQUID-POOL FAST COOK OFF FIRES	Dr. David Hubble, USA
9:10 AM	18766	766 INVESTIGATION OF A POSSIBLE FUEL FIRE ALTERNATIVE: RADIATIVE PANELS		Mr. Julien Moriceau, France
9:30 AM	AM 18784 EFFECT OF ITEM BLOCKAGE IN FAST COOK OFF FIRES		Dr. Jon Yagla, USA	
9:50 AM 18820 CALIBRATION OF A PROPANE FAST HEATING BURNER USED TO TEST LARGE ORDNANCE		HEATING BURNER USED TO TEST LARGE ORDNANCE	Dr. Ephraim Washburn, USA	

SESSION 5	SESSION 5B - ENERGETICS AND STANDARDS		ROOM: HERMITAGE D	SESSION CHAIR: WERNER ARNOLD
8:30 AM	18775	REVIEW AND UPDATE OF STANAG 4526 SHAPED CHARGE JET, MUNITIONS TEST PROCEDURE		Dr. Brian Fuchs, USA
8:50 AM	18715	PROJECTION CRITERIA FOR INSEN	SITIVE MUNITIONS AND HAZARD CLASSIFICATION	Dr. Ernie Baker, USA
9:10 AM	18735	INSENSITIVE MUNITIONS TYPE IV L	INSENSITIVE MUNITIONS TYPE IV LETHAL FRAGMENT PROJECTION ENERGY THRESHOLD	
9:30 AM	18754	PREPARATION AND CHARACTERIZ	PREPARATION AND CHARACTERIZATION OF NANOSTRUCTURED COMPOSITION B	
9:50 AM	ΡΑΒΤΙΟΙ Ε SIZE EFECTS ON THE INITIATION CHARACTERISTICS OF DIAMINOAZOXYEURAZAN		Ms. Elizabeth Francois, USA	

10:10 am - 10:30 am

NETWORKING BREAK AND POSTER SESSION - Hermitage AB

10:30 am - 11:50 am

BREAKOUT PRESENTATIONS

	SESSION 6	A - TESTIN	G II	ROOM: HERMITAGE C	SESSION CHAIR: ERNIE BAKER
	10:30 AM 18825 A SERIES OF BKN03 NITROCELI VARYING IGNITION CHARACTER			LULOSE BASED LOW SENSITIVITY IGNITERS WITH ISTICS	Dr. Eugene Rozumov, USA
	10:50 AM	18743	INSENSITIVE 120 MM MORTAR BOMB		Mr. Christophe Coulouarn, France
ĺ	11:10 AM	18736	FRAGMENT BREAK-UP INVESTIGATION		Mr. Daniel Pudlak, USA

SESSION 6B - PROCESSING II		SSING II	ROOM: HERMITAGE D	SESSION CHAIR: BRAD SLEADD	
10:30	AM	18799	SCALE-UP AND ANALYSIS OF TAGMNT		Dr. Victor Rendina, USA
10:50	AM	18807	DESIGN CONSIDERATIONS FOR AUTOMATED MANUFACTURING SYSTEMS FOR PRIMARY EXPLOSIVES AND MILITARY PYROTECHNICS		Mr. Charles Sturdivant, USA
11:10	AM	18745	IMPLEMENTATION OF XF®PREMIX ON TRADITIONAL MELT-CAST EQUIPMENT: MECAR WORKSHOP FOR INSENSITIVE AMMUNITION		Mr. David Struyve, Belgium
11:30	AM	ORDERED CRYSTAL ASSEMBLY OF ULTRAFINE EXPLOSIVE PARTICLES AND THEIR		Dr. Zhijian Yang, China	

11:50 am

ADJOURN FOR THE DAY

THURSDAY, SEPTEMBER 15

- 7:00 am 10:00 am
 CONFERENCE REGISTRATION Hermitage Foyer
- 7:00 am 8:00 am CONTINENTAL BREAKFAST

8:00 an	n - 9:40 ar	n BREAKOUT	PRESENTATIONS	
SESSION 7	a - Mitigat	FION AND TESTING	ROOM: HERMITAGE C	SESSION CHAIR: WADE BABCOCK
8:00 AM	18705	INSENSITIVE MUNITIONS (IM) AND INTEGRATION	HAZARD CLASSIFICATION (HC) TESTING GUIDANCE AND	Mr. Ken Tomasello, USA
8:20 AM	18710	MITIGATION TECHNIQUES FOR MU	NITIONS – EASY ACCESS ONLINE!	Mr. Emmanuel Schultz, Belgium
8:40 AM	18740	FRAGMENT IMPACT MITIGATION T	HROUGH SHOCK-INDUCED THREAT DAMAGE	Mr. Michael Steinberg, USA
9:00 AM	18763	SHOCK SENSITIVITY TESTING OF 3	(5),4-DINITROPYRAZOLE	Dr. Janis Ritums, Sweden
9:20 AM	18765	FAST COOK-OFF MODELS AND EX LAUNCHER CANISTERS	PERIMENTS WITH ROCKET MOTORS IN MISSILE	Dr. Jon Yagla, USA

SESSION 7B - SYNTHESIS		ESIS	ROOM: HERMITAGE D	SESSION CHAIR: RON HOLLANDS
8:00 AM	18796	DEVELOPMENT AND TESTING OF 3,4 DNP		Dr. Jacob Morris, USA
8:20 AM	18798	LABORATORY AND PILOT SCALE SYNTHESIS OF LLM 105		Mr. James Phillips, USA
8:40 AM	18803	SYNTHESIS OF NEW ENERGETIC BINDERS DERIVED FROM ADIOL		Dr. Melissa Mileham, USA
9:00 AM	18830	SYNTHESIS AND CHARACTERIZATI	ON OF NEW ISOXAZOLE-BASED ENERGETIC MATERIALS	Dr. Pablo Guzman, USA
9:20 AM	18797	PROCESS DEVELOPMENT AND SC	ALE-UP OF MDNT	Dr. Jacob Morris, USA

9:40 am - 10:00 am NETWORKING BREAK AND POSTER SESSION - Hermitage AB

10:00 am - 11:40 am BREAKOUT PRESENTATIONS

SESSION 8A - SYSTEMS I		/IS I	ROOM: HERMITAGE C	Session Chair: Kat Hunt
10:00 AM	18689	USE OF PACKAGING METHODOLOGIES AND INNOVATIVE MATERIALS TO PREVENT INADVERTENT REACTION OF CONTAINERIZED NAVAL ORDNANCE		Mr. Robert Van Schaack, USA
10:20 AM	18785	MITIGATION DEVICE FOR NEXT GENERATION MEDIUM CALIBER AMMUNITION		Mr. Nicolas Bruno, Argentina
10:40 AM	18733	ONE POINT SAFE EXPLOSIVE CHARGE		Dr. Eamon Colclough, UK
11:00 AM	18727	EVALUATION OF THE 90MM MK8 HEP AMMUNITION FILLED WITH IM P16945 EXPLOSIVE COMPOSITION		Mr. David Struyve, Belgium
11:20 AM	18801	IM & FHC RESULTS FOR 105MM CHARGE	M1130 CARTRIDGE WITH XM350 PROPELLING	Mr. Charlie Patel, USA

SESSION 8B - ENERGETIC MATERIALS II		etic materials II	ROOM: HERMITAGE D	SESSION CHAIR: PAUL BRAITHWAITE
10:00 AM	18810	NITROISOBUTANETRINITRATE (NIE	NITROISOBUTANETRINITRATE (NIBTN): A POTENTIAL NG REPLACEMENT PLASTICIZER	
10:20 AM	18794	ALTERNATIVE WAXES FOR COMPOSITION B		Mr. Myles Donegan, USA
10:40 AM	0000	ENGINEERING LEVEL IM TEST RESULTS FOR 155MM EXTENDED RANGE XM1128 HE PROJECTILE		Mr. Keyur Patel, USA
11:00 AM	18730	CHARACTERIZATION OF DNAM (DINITRAMINO MELAMINE)		Mr. Philip Samuels, USA
11:20 AM	18751	AMORPHOUS ENERGETICS		Dr. Rajen Patel, USA

11:40 am - 1:00 pm

LUNCH - Old Hickory

1:00 pm	n - 2:40 pr	n BREAKOUT I	PRESENTATIONS	
SESSION 9	A - MODEL	ING	ROOM: HERMITAGE C	SESSION CHAIR: MELISSA MILEHAM
1:00 PM	18734	ON THE WAY TO A UNIFIED INITIAT	ON MODEL	Mr. Werner Arnold, Germany
1:20 PM	18759	COMPOSITE MATERIAL MODELING	FOR FRAGMENT IMPACT	Mr. Matt Triplett, USA
1:40 PM	18774	HRVM - A NUMERICAL TOOL TO EN AMMUNITION UNDER MECHANICA	NHANCE THE REACTION VIOLENCE PREDICTION OF	Mr. Julien Moriceau, France
2:00 PM	18757		E VISUALIZATION AND PREDICTION OF WARHEAD INSENSITIVE MUNITION FRAGMENT IMPACT TESTS	Mr. Benjamin Blazek, USA
2:20 PM	18707	CONSOLIDATED GUIDE TO MATERI SIMULATION EFFORTS	AL PARAMETERS NEEDED FOR IM MODELING AND	Mr. Wade Babcock, Belgium

SESSION 9B - PROPELLANTS		LANTS	ROOM: HERMITAGE D	Session Chair: Jamie Neidert
1:00 PM	18717	DEVELOPMENT OF INSENSITIVE MUNITIONS (IM) THERMOPLASTIC ELASTOMER (TPE) PROPELLANTS FOR LARGE CALIBRE GUN SYSTEMS		Dr. Mark Penny, UK
1:20 PM	18731	A NEW GENERATION OF MINIMUM PROPULSION	SMOKE PROPELLANTS FOR TACTICAL MISSILE	Mr. Eirik Loekke, Norway
1:40 PM	18755	MAKING PROGRESS TOWARDS GR	EEN PROPELLANTS	Dr. Rowan Dobson, France
2:00 PM	18686	EFFECTS OF LONG-TERM AGEING	ON SMALL AND MEDIUM CALIBRE PROPELLANTS	Mr. Beat Vogelsanger, Switzerland
2:20 PM	18706	HIGH PERFORMANCE PROPULSION GAPS	N INSENSITIVE MUNITIONS TECHNOLOGY GOALS AND	Mr. Stuart Blashill, USA

2:40 pm - 3:00 pm

NETWORKING BREAK AND POSTER SESSION - Hermitage AB

3:00 pm - 4:20 pm

BREAKOUT PRESENTATIONS

SESSION 10A - SYSTEMS II		MS II	ROOM: HERMITAGE C	SESSION CHAIR: STEPHEN STRUCK
3:00 PM	18786	NATO WORKING GROUP ON IM AND HAZARD CLASSIFICATION REQUIREMENTS, ASSESSMENT AND RISK		Mr. Philip Cheese, UK
3:20 PM	18800	IMPACT AND COOK-OFF MITIGATION APPROACH FOR THE 105MM ARTILLERY PROPULSION SYSTEM		Mr. Charlie Patel, USA
3:40 PM	18726	IM AND LETHALITY PERFORMANCE OF 81MM IHE MORTAR BOMBS FILLED WITH DIFFERENT INSENSITIVE EXPLOSIVES		Mr. Jackie Sibeko, South Africa
4:00 PM	2016-1	IM ENERGETICS DEVELOPMENT IN AND LESSONS LEARNED	TO NEW LEGACY WEAPON SYSTEMS: PM PERSPECTIVE	Mr. Daniel Zaloga, USA

SESSION 10B - PROCESSING III		ESSING III	ROOM: HERMITAGE D	SESSION CHAIR: MELISSA HOBBS
3:00 PM	18776		PROCESSING PARAMETERS AND PHYSICAL PROPERTIES ICT ENERGY OUTPUT PERFORMANCE RESULTS OF M112	Dr. Jeremy Headrick, USA
3:20 PM	18721	REACHING A CONTINUOUS PROPELLANT PRODUCTION PROCESS		Mr. Erik Tunestal, Sweden
3:40 PM	18806	MANUFACTURING PROCESS TECHI	NOLOGY FOR EXPLOSIVE PBXIH-18	Dr. Erica Lotspeich, USA
4:00 PM	18793	EXPLOSIVES COATING VIA ADVANC	Ed Cluster Energetics (ACETM) Fluid Energy Mill	Mr. Brian Alexander, USA

4:20 pm

CLOSING REMARKS & POSTER AWARDS PRESENTATION - Hermitage AB Mike Ervin, BAE Systems Ken Graham, Aerojet Rocketdyne

5:00 pm

CONFERENCE ADJOURNS

ABSTRACT	TITLE	AUTHOR	SESSION
18686	EFFECTS OF LONG-TERM AGEING ON SMALL AND MEDIUM CALIBRE PROPELLANTS	VOGELSANGER	9B
18687	PARTICLE SIZE EFFECTS ON THE INITIATION CHARACTERISTICS OF DIAMINOAZOXYFURAZAN (DAAF)	FRANCOIS	5B
18689	USE OF PACKAGING METHODOLOGIES AND INNOVATIVE MATERIALS TO PREVENT INADVERTENT REACTION OF CONTAINERIZED NAVAL	VAN SCHAACK	8A
18699	ORDNANCE NEW M 67/SFG 75 IM HAND GRENADES	VEKSLER	POSTER
18705	INSENSITIVE MUNITIONS (IM) AND HAZARD CLASSIFICATION (HC) TESTING GUIDANCE AND INTEGRATION	TOMASELLO	7A
18706	HIGH PERFORMANCE PROPULSION INSENSITIVE MUNITIONS TECHNOLOGY GOALS AND GAPS	BLASHILL	9B
18707	CONSOLIDATED GUIDE TO MATERIAL PARAMETERS NEEDED FOR IM MODELING AND SIMULATION EFFORTS	BABCOCK	9A
18708	TURNING UP THE HEAT: SCIENCE OF COOKOFF WORKSHOP FINDINGS	ANDREWS	5A
18709	MSIAC - REFLECTION ON 25 YEARS SUPPORTING THE MUNITIONS SAFETY COMMUNITY	SHARP	PLENARY
18710	MITIGATION TECHNIQUES FOR MUNITIONS – EASY ACCESS ONLINE!	SCHULTZ	7A
18715	PROJECTION CRITERIA FOR INSENSITIVE MUNITIONS AND HAZARD CLASSIFICATION	BAKER	5B
18717	DEVELOPMENT OF INSENSITIVE MUNITIONS (IM) THERMOPLASTIC ELASTOMER (TPE) PROPELLANTS FOR LARGE CALIBRE GUN SYSTEMS	PENNY	9B
18718	NAVY INSENSITIVE MUNITIONS (IM) PROGRAM PLANNING AND EXECUTION	PORADA	4A
18719	COMPATIBILITY INVESTIGATIONS ON NOVEL ENERGETIC FORMULATIONS OF NITROGEN RICH AZOLE [BISTETRAZOLYLAMINE(BTA)]	SASIDHARAN	3B
18720	BENEFITS OF INSENSITIVE MUNITIONS ON STORAGE AND OPERATIONS	KEEFE	4A
18721	REACHING A CONTINUOUS PROPELLANT PRODUCTION PROCESS	TUNESTÅL	10B
18723	ORDERED CRYSTAL ASSEMBLY OF ULTRAFINE EXPLOSIVE PARTICLES AND THEIR SENSITIVITY PERFORMANCE	YANG	6B
18724	SMALL SCALE FRAGMENT ATTACK TESTING ON THE LMM MISSILE BOOST MOTOR AND THE INFLUENCE OF THE CONDUIT FORM ON XDT THRESHOLD	HOLDEN	2A
18725	CHANGES TO NATO IM POLICY AND FULL SCALE TESTING DOCUMENTS	PECHOUX	4A
18726	IM AND LETHALITY PERFORMANCE OF 81MM IHE MORTAR BOMBS FILLED WITH DIFFERENT INSENSITIVE EXPLOSIVES	SIBEKO	10A
18727	EVALUATION OF THE 90MM MK8 HEP AMMUNITION FILLED WITH IM P16945 EXPLOSIVE COMPOSITION	STRUYVE	8A
18729	CHARACTERIZATION OF 1-PROPYL-2-NITROGUANIDINE (PRNQ)	SAMUELS	3B
18730	CHARACTERIZATION OF DNAM (DINITRAMINO MELAMINE)	SAMUELS	8B
18731	A NEW GENERATION OF MINIMUM SMOKE PROPELLANTS FOR TACTICAL MISSILE PROPULSION	LOEKKE	9B
18733	ONE POINT SAFE EXPLOSIVE CHARGE	COLCLOUGH	8A
18734	ON THE WAY TO A UNIFIED INITIATION MODEL	ARNOLD	9A
18735	INSENSITIVE MUNITIONS TYPE IV LETHAL FRAGMENT PROJECTION ENERGY THRESHOLD	PUDLAK	5B
18736	FRAGMENT BREAK-UP INVESTIGATION	PUDLAK	6A
18740	FRAGMENT IMPACT MITIGATION THROUGH SHOCK-INDUCED THREAT DAMAGE	STEINBERG	7A
18741	U.S. SLOW COOK-OFF CONSORTIUM	HAYDEN	3A
18743	INSENSITIVE 120 MM MORTAR BOMB	COULOUARN	6A

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