

**Oral Session****General Oral Session**

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
1	37702045	DESIGN AND GEOMETRIC OPTIMISATION OF SOLID PROPELLANT GRAIN FOR LARGE MOTORS	P	sunitha	India	Interior Ballistics	Oral	P 5	Hall 3	6th Nov	10:50 AM	12:20 AM
2	37281677	Numerical simulation investigation on the deep-closure cavities of hollow cylinders during vertical water-entry process	Yu	Hou	China	Others - GS	Oral	G 1	Hall 1/2	5th Nov	09:45 AM - 10:00 AM	09:30 AM - 11:00 AM
3	37460089	Modeling Trajectories for Optimal Bending Body Configurations to Evaluate Guided	Paul	Justin	United States	Exterior Ballistics-GS	Oral	G 1	Hall 1/2	5th Nov	10:00 AM - 10:15 AM	09:30 AM - 11:00 AM
4	37815691	ANALYSIS OF GLOBAL MOMENTUM TRANSFER DUE TO BURIED IED DETONATION	Heider	Norbert	Germany	Vulnerability and Survivability-GS	Oral	G 1	Hall 1/2	5th Nov	10:15 AM - 10:30 AM	09:30 AM - 11:00 AM
5	37563959	Visualization and quantitative analysis of muzzle flow and projectile in flight flow using Background Oriented Schlieren	MOUMEN	Abdelhafidh	Belgium	Exterior Ballistics	Oral	P 4	Hall 3	6th Nov	9:00 AM	10:30 AM
6	37469865	On the study of automated identification of firearms through associated striation marks	Mahanta	Lipi B	India	Others - GS	Oral	Student Awardee	Hall 1/2	5th Nov	10:45 AM - 11:00 AM	09:30 AM - 11:00 AM

Terminal Ballistics - 1

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
7	38706529	Re-visit the Mass-Flux Model for Explosive Reactive Armor Including the Effect of Plate's Thickness	Misiuk	Lev	Israel	Terminal Ballistics	Oral	TB 1	Hall 1/2	5th Nov	11:20 AM - 11:35 AM	11:20 AM - 12:50 PM
8	38603881	TARGET FLOW FIELDS AND PENETRATION RESISTANCE FOR POINTED PROJECTILES	Walker	James	United States	Terminal Ballistics	Oral	TB 1	Hall 1/2	5th Nov	11:35 AM - 11:50 AM	11:20 AM - 12:50 PM
9	37915895	Dynamic back face deformation of a combat helmet upon oblique impact of a 7.62x39 mm PS projectile	Seidl	Marina	France	Terminal Ballistics	Oral	TB 1	Hall 1/2	5th Nov	11:50 AM - 12:05 PM	11:20 AM - 12:50 PM
10	37953777	Resistance of steel-elastomer laminate armors to impacts of small-caliber projectiles	Teresa	Fras	France	Terminal Ballistics	Oral	TB 1	Hall 1/2	5th Nov	12:05 PM - 12:20 PM	11:20 AM - 12:50 PM
11	38160295	BALLISTIC IMPACT DAMAGE AND FRAGMENTATION IN DIFFERENT TYPES OF GLASS AND GLASS CERAMIC	Strassburger	Elmar	Germany	Terminal Ballistics	Oral	TB 1	Hall 1/2	5th Nov	12:20 PM - 12:35 PM	11:20 AM - 12:50 PM
12	38161517	Study on the forming performance of central perforated EFP warhead	Niu	Wenyu	China	Terminal Ballistics	Oral	TB 1	Hall 1/2	5th Nov	12:35 PM - 12:50 PM	11:20 AM - 12:50 PM

Interior Ballistics - 1

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
13	37342777	Gradient printing of energetic materials	Straathof	Michiel	Netherlands	Interior Ballistics	Oral	IB 1	Hall 1/2	5th Nov	01:50 PM - 02:02 PM	01:50 PM - 03:20 PM
14	38980257	Electrodynamic response study on railgun launcher based on electromechanical coupling model	Xiao	Hongcheng	China	Interior Ballistics	Oral	IB 1	Hall 1/2	5th Nov	02:02 PM - 02:14 PM	01:50 PM - 03:20 PM
15	37896343	Three-dimensional Numerical Fluid Flow Simulation of the Interior and Transitional Ballistics Process	Wölböng	Roman	France	Interior Ballistics	Oral	IB 1	Hall 1/2	5th Nov	02:14 PM - 02:26 PM	01:50 PM - 03:20 PM
16	38628321	Erosion of different propellants on the cobalt-based alloy coating for gun barrel	Men	Xiangdong	China	Interior Ballistics	Oral	IB 1	Hall 1/2	5th Nov	02:26 PM - 02:38 PM	01:50 PM - 03:20 PM
17	37319559	Recent update on the multi-physical model of electromagnetic railgun	Lin	Qinghua	China	Interior Ballistics	Oral	IB 1	Hall 1/2	5th Nov	02:38 PM - 02:50 PM	01:50 PM - 03:20 PM
18	37530965	A Novel Experimental Method to Measure Instantaneous Pressure inside Power Cartridge using Velocity Test Rig and proje	Parate	Bhupesh	India	Interior Ballistics	Oral	IB 1	Hall 1/2	5th Nov	02:50 PM - 02:02 PM	01:50 PM - 03:20 PM

Exterior Ballistics - 1

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
20	37581067	COUPLED SIMULATIONS FOR A CANARD-CONTROLLED PROJECTILE WITH THRUST-VECTOR CONTROL	Sahu	Jubaraj	USA	Exterior Ballistics	Oral	EB 1	Hall 1/2	5th Nov	03:40 PM - 03:57 PM	03:40 PM - 05:25 PM
21	37429539	Global Optimization of Aerodynamic Coefficient Identification Through Combining Multiple Measured Data of Projectiles	Chang	Sijiang	China	Exterior Ballistics	Oral	EB 1	Hall 1/2	5th Nov	03:57 PM - 04:14 PM	03:40 PM - 05:25 PM
22	38755409	A Novel Approach for Launch Opportunity Calculation for High Inclined Orbit Mission	SINGH	ROHIT KUMAR	INDIA	Exterior Ballistics	Oral	EB 2	Hall 1/2	5th Nov	04:14 AM - 04:31 PM	08:30 AM - 10:00 AM
23	38122413	In-flight Spin Measurement of High Velocity Projectile using Infra-Red Imaging Technique	Mohapatra	Sudeshna	INDIA	Exterior Ballistics	Oral	EB 1	Hall 1/2	5th Nov	04:31 PM - 04:48 PM	03:40 PM - 05:25 PM
24	37500415	Guidance of medium caliber projectiles by using an impulse thruster and a navigation module based on magnetometer	Changey	sebastien	FRANCE	Exterior Ballistics	Oral	EB 1	Hall 1/2	5th Nov	04:48 PM - 05:05 PM	03:40 PM - 05:25 PM
25	37954999	Spin-Stabilized Projectile Aerodynamic Coefficients Reconstruction using Mono and Multi Fidelity Surrogate Models	ARNOULT	Guillaume	FRANCE	Exterior Ballistics	Oral	Student Awardee	Hall 1/2	5th Nov	05:05 PM - 05:25 PM	03:40 PM - 05:25 PM

Terminal Ballistics - 2

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
26	38598993	Modeling on the shock wave in spheres hypervelocity impact on flat plates	Chen	Xiaowei	China	Terminal Ballistics	Oral	TB 2	Hall 1/2	6th Nov	09:00 AM - 09:15 AM	09:00 AM - 10:30 AM
27	37278011	Investigation on the Penetration Performance and Penetration Mechanism of 93W Alloys Fragments	he	jia-nan	China	Terminal Ballistics	Oral	TB 2	Hall 1/2	6th Nov	09:15 AM - 09:30 AM	09:00 AM - 10:30 AM
28	37526077	Ballistic performance of high strength steel and aluminum plates against spherical tungsten fragments	Wang	Gengsheng	Sweden	Terminal Ballistics	Oral	TB 2	Hall 1/2	6th Nov	09:30 AM - 09:45 AM	09:00 AM - 10:30 AM
29	38112637	CONTROLLED FRAGMENTATION WARHEAD FOR UAV APPLICATIONS	Behera	Hullash Narayan	India	Terminal Ballistics	Oral	TB 2	Hall 1/2	6th Nov	09:45 AM - 10:00 AM	09:00 AM - 10:30 AM
30	38690643	Thin Flyer Impact Initiation Study of Ultrafine CL-20/HMX Co-crystal Explosive by Varying Barrel Diameter	Gupta	Shallu	India	Terminal Ballistics	Oral	TB 2	Hall 1/2	6th Nov	10:00 AM - 10:15 AM	09:00 AM - 10:30 AM
31	37431983	Effect of resin on laminate ballistic performance subjected to deformable and non-deformable projectiles	REDDY	P RAMA SUBBA	INDIA	Terminal Ballistics	Oral	TB 2	Hall 1/2	6th Nov	10:15 AM - 10:30 AM	09:00 AM - 10:30 AM

Vulnerability and Survivability

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
32	37315893	Efficiency of different cage armour systems	Coghe	Frederik	België	Vulnerability and Survivability	Oral	V S 1	Hall 1/2	6th Nov	10:50 AM - 11:05 AM	10:50 AM - 12:20 PM
33	37489417	Ballistic Factors of Behind Helmet Blunt Trauma Skull Fracture	Matheis	Erika	US	Vulnerability and Survivability	Oral	V S 1	Hall 1/2	6th Nov	11:05 AM - 11:20 AM	10:50 AM - 12:20 PM
34	38190845	Comparative Tests with 'Pk17dynA' for an Integrated Assessment of Ballistic Backface Deflections on Combat Helmets	Grobart	Steffen	Germany	Vulnerability and Survivability	Oral	V S 1	Hall 1/2	6th Nov	11:20 AM - 11:35 AM	10:50 AM - 12:20 PM
35	37450313	Parametric Study of Active Counter Impulse Rocket System	Shapira	Nimi	Israel	Vulnerability and Survivability	Oral	V S 1	Hall 1/2	6th Nov	11:35 AM - 11:50 AM	10:50 AM - 12:20 PM
36	38761519	Optimization of Parameters for Blast Inflicted Deflection on Kinetic Energy Projectile	Pandey	Pranav	India	Vulnerability and Survivability	Oral	V S 1	Hall 1/2	6th Nov	11:50 AM - 12:05 PM	10:50 AM - 12:20 PM
37	37270679	Capability to Absorb Projectile Kinetic Energy by Structures Made in Additive Manufacturing Technology	Wisniewski	Adam	Poland	Vulnerability and Survivability	Oral	V S 1	Hall 1/2	6th Nov	12:05 AM - 12:20 PM	10:50 AM - 12:20 PM

Explosion Mechanics - 1

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
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38	37251127	Study on the Influence of wave-shaper on the damage elements formation of PELE/EFP mode conversion warhead	Yin	Jianping	China	Explosion Mechanics	Oral	EM 1	Hall 1/2	7th Nov	09:00 AM - 09:15 AM	09:00 AM - 10:30 AM
39	37523633	Fragmentation from Detonations and Less Violent Munition Responses	Baker	Ernest	Belgium	Explosion Mechanics	Oral	EM 1	Hall 1/2	7th Nov	09:15 AM - 09:30 AM	09:00 AM - 10:30 AM
40	37359885	THIN FLYER IMPACT INITIATION THRESHOLD COMPARISON OF HNS-IV, CL-20, CL-20/HMX COCRYSTAL IN SLAPPER DETONATOR	Pal	Dinesh Kumar Balkishan	India	Explosion Mechanics	Oral	EM 1	Hall 1/2	7th Nov	09:30 AM - 09:45 AM	09:00 AM - 10:30 AM
41	37637279	DEFEATING UAVS THROUGH NOVEL HPEM EFFECTORS	Graswald	Markus	Germany	Explosion Mechanics	Oral	EM 1	Hall 1/2	7th Nov	09:45 AM - 10:00 AM	09:00 AM - 10:30 AM
42	38091863	EVALUATION OF THE DYNAMIC FRACTURE CHARACTERISTICS OF SHAPED CHARGE JETS AT DIFFERENT STRAIN RATES AND KNOWN INITIAL LIN	majiet	fakhree	South Africa	Explosion Mechanics	Oral	EM 1	Hall 1/2	7th Nov	10:00 AM - 10:15 AM	09:00 AM - 10:30 AM
43	37483307	Effect of HE Grain Size on Shaped Charge Jets	Thomas	Hartmann	Germany	Explosion Mechanics	Oral	EM 1	Hall 1/2	7th Nov	10:15 AM - 10:30 AM	09:00 AM - 10:30 AM

Launch Dynamics

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
43	38864167	ANALYTICAL AND EXPERIMENTAL STUDIES ON SABOT SEPARATION IN INTERMEDIATE BALLISTIC REGIMES	MR	Sreelal	India	Launch Dynamics	Oral	LD 1	Hall 1/2	7th Nov	10:50 AM - 11:05 AM	10:50 AM - 12:20 PM
44	37807137	Research on Momentum Transfer in Simple Railgun	Yingtao	Xu	China	Launch Dynamics	Oral	LD 1	Hall 1/2	7th Nov	11:05 AM - 11:20 AM	10:50 AM - 12:20 PM
45	38118747	A Numerical Analysis of the In-Bore Motion of Small Caliber Projectiles	Dutschke	Bernd	Germany	Launch Dynamics	Oral	LD 1	Hall 1/2	7th Nov	11:20 AM - 11:35 AM	10:50 AM - 12:20 PM
46	38855613	Numerical Simulation of the In-bore Motion of a typical artillery shell and investigation of balloting	Panda	Tapas	India	Launch Dynamics	Oral	LD 1	Hall 1/2	7th Nov	11:35 AM - 11:50 AM	10:50 AM - 12:20 PM
47	37694713	Soft Recovery of Gun Launched Supersonic Projectiles in long column of Compressed Air & Water	TRIGUNAYAK	ANKUR	INDIA	Launch Dynamics	Oral	LD 1	Hall 1/2	7th Nov	11:50 AM - 12:05 PM	10:50 AM - 12:20 PM
48	38139521	Flexibility analysis of cylindrical panels of a hypersonic launch vehicle in a ballistic trajectory for separation loads	G	Jayanthi	India	Launch Dynamics	Oral	LD 1	Hall 1/2	7th Nov	12:05 AM - 12:20 PM	10:50 AM - 12:20 PM

Terminal Ballistics - 3

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
49	37560293	Bullet penetration into medium density fibreboard targets	Koene	L.	Netherlands	Terminal Ballistics	Oral	TB 3	Hall 1/2	7th Nov	12:20 PM - 12:35 PM	12:20 PM - 01:50 PM
50	38834839	Trajectory of Oblique Penetration into Concrete Targets by Rigid Projectiles with Different Structure Characteristics	Gao	Xudong	China	Terminal Ballistics	Oral	TB 3	Hall 1/2	7th Nov	12:35 PM - 12:50 PM	12:20 PM - 01:50 PM
51	38711417	High strain rate deformation behavior of materials: effect of crystal structure, grain size, microstructure and texture	MISHRA	BIDYAPATI	India	Terminal Ballistics	Oral	TB 3	Hall 1/2	7th Nov	12:50 PM - 01:05 PM	12:20 PM - 01:50 PM
52	38746855	Effectiveness of Different Shear Thickening Fluids in Reducing Back Face Signature (BFS) of Body Armor against Bullet Im	verma	sanjeev	India	Terminal Ballistics	Oral	TB 3	Hall 1/2	7th Nov	01:05 PM - 01:20 PM	12:20 PM - 01:50 PM
53	37453979	BLAST MITIGATION STUDY IN COMPOSITE MATERIALS	Sandhu	Inderpal Singh	India	Terminal Ballistics	Oral	TB 3	Hall 1/2	7th Nov	01:20 PM - 01:35 PM	12:20 PM - 01:50 PM
54	37798583	Using of fluoropolymer materials to defeat lightly armored and easily vulnerable targets	Khmelnikov	Evgeny	Russian Federation	Terminal Ballistics	Oral	Student Awardee	Hall 1/2	7th Nov	01:35 PM - 01:50 PM	12:20 PM - 01:50 PM

Explosion Mechanics - 2

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
55	38073533	Effect of confinement on the performance of fuel rich explosive charges	Katore	Maresh	India	Explosion Mechanics	Oral	EM 2	Hall 1/2	7th Nov	02:30 PM - 02:45 PM	02:30 PM - 04:00 PM
56	38530561	EXPLODING BRIDGE-WIRE INITIATION PERFORMANCE OF ULTRAFINECL-20 EXPLOSIVE	Jindal	Deepika	India	Explosion Mechanics	Oral	EM 2	Hall 1/2	7th Nov	02:45 PM - 03:00 PM	02:30 PM - 04:00 PM

57	37232797	EFFECT OF DETONATION INITIATION METHODS ON EFP WARHEAD	KUMAR	MUKESH	India	Explosion Mechanics	Oral	EM 2	Hall 1/2	7th Nov	03:00 PM - 03:15 PM	02:30 PM - 04:00 PM
58	37981883	Liner collapse related issues in the design of low L/D shaped charges	Sekharan	Harikrishnan	India	Explosion Mechanics	Oral	P 9	Hall 3	7th Nov	4:20 PM	5:50 PM
59	38259277	CODE FOR THE MODELING OF SHAPED CHARGE	Narang	Jaspreet Kaur	India	Explosion Mechanics	Oral	EM 2	Hall 1/2	7th Nov	03:30 PM - 03:45 PM	02:30 PM - 04:00 PM
60	38545225	INTERFACE STUDY OF EXPLOSIVE WELDED AL-STEEL JOINT USING ULTRASONIC PHASED ARRAY TECHNIQUE	Sherpa	Bir Bahadur	India	Explosion Mechanics	Oral	Student Awardee	Hall 1/2	7th Nov	03:45 PM - 04:00 PM	02:30 PM - 04:00 PM

Launch Dynamics / Interior Ballistics

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
61	38842171	ANALYSIS OF EFFECTS OF VARIOUS BURN RATE EVALUATION TECHNIQUES AND PROCESS VARIABILITY ON BEM BURN RATE MEASUREMENT	SHARMA	ASHUTOSH	India	Interior Ballistics	Oral	LD/IB 1	Hall 1/2	7th Nov	04:20 PM - 04:35 PM	04:20 PM 05:50 PM
62	38080865	Analysis of a Novel Double Funnel Port Solid Rocket Propellant Grain Configuration for Achieving Improved Neutrality	JAIN	SUNIL	india	Interior Ballistics	Oral	LD/IB 1	Hall 1/2	7th Nov	04:35 PM - 04:50 PM	04:20 PM 05:50 PM
63	38644207	Blow-by Erosion Model for the Saddle-Type Degradation of High Pressure Gun Bore	Gan	Lin	China	Interior Ballistics	Oral	LD/IB 1	Hall 1/2	7th Nov	04:50 PM - 05:05 PM	04:20 PM 05:50 PM
64	38525673	Preliminary numerical and experimental investigations of 9 mm pistol bullet and barrel interaction	Fikus	Bartosz	Poland	Interior Ballistics	Oral	LD/IB 1	Hall 1/2	7th Nov	05:05 PM - 05:20 PM	04:20 PM 05:50 PM
65	38636875	Research Progress on Application of Refractory Metals and Superalloys in Gun Barrels	Tao	Fenghe	China	Interior Ballistics	Oral	LD/IB 1	Hall 1/2	7th Nov	05:20 PM - 05:35 PM	04:20 PM 05:50 PM
66	38684533	Coating processes towards Selective Laser Sintering of Energetic Material composites	Jiba	Zetu	South Africa	Interior Ballistics	Oral	Student Awardee	Hall 1/2	7th Nov	05:35 PM - 05:50 PM	04:20 PM 05:50 PM

Exterior Ballistics - 2

Sno	Proposal ID	Topic Title	Last Name	First Name	Country	Theme Name	Oral/Poster	Allocation	Presentation Hall	Presentation Date	Presentation Timings	Session Timings
67	38149297	Effect of Fin Cant Angle on Coning Stability of an Unguided Artillery Rocket	AMALRAJ	ANANDARAJ	India	Exterior Ballistics	Oral	EB 2	Hall 1/2	8th Nov	08:30 AM - 08:45 AM	08:30 AM - 10:00 AM
68	38157851	Reentry Trajectory Optimization of Hypersonic Missile using Hybrid Adaptive GA and SQP Algorithm	Ni	Hao	China	Exterior Ballistics	Oral	EB 2	Hall 1/2	8th Nov	08:45 AM - 09:00 AM	08:30 AM - 10:00 AM
69	38739523	PARAMETRIC PROFILING OF WATER-JET PROJECTILES FOR EOD DISRUPTOR USING HIGH-SPEED IMAGING TECHNIQUE	MAHTO	VIWEK	INDIA	Exterior Ballistics	Oral	EB 2	Hall 1/2	8th Nov	09:00 AM - 09:15 AM	08:30 AM - 10:00 AM
70	37372105	A Comparison of Piecewise Cubic Hermite Interpolating Polynomials, Cubic Splines and Piecewise Linear Functions for the	Rabbath	C.A.	Canada	Exterior Ballistics	Oral	EB 2	Hall 1/2	8th Nov	09:15 PM - 09:30 PM	08:30 AM - 10:00 AM
71	38431579	Control Force and Moment Generation using Vortex Generators for Agile Munitions	Narayanaswamy	Venkat	United States	Exterior Ballistics	Oral	EB 2	Hall 1/2	8th Nov	09:30 PM - 09:45 PM	08:30 AM - 10:00 AM
72	37681271	Influence of the Transonic Crossing for Precision Ammunition	de Briey	Véronique	Belgique	Exterior Ballistics	Oral	Student Awardee	Hall 1/2	8th Nov	09:45 AM - 10:00 AM	08:30 AM - 10:00 AM