

Day - 01

Thursday, 02 Dec, 2021

TUTORIALS0930 - 1000 : **Registration** Venue : **ARDE Main Foyer**

<i>Time</i>	<i>Event</i>	<i>Venue</i>
1000 - 1100	Hold Down & Release Mechanisms (HDRM) for Space Applications <i>Dr. Amit Kumar Gupta, BITS - Pilani</i>	Hall - C
1100 - 1115	Tea Break	
1115 - 1215	Recent Advancements in Surface Engineering to Improve Reliability of Engineering Components <i>Dr. D Srinivasa Rao, ARCI, Hyderabad</i>	Hall - C
1215 - 1315	Compliant Mechanism for High Precision Applications <i>Dr. Prasanna Gandhi, IIT, Bombay</i>	Hall - C
1315 - 1400	Lunch Break	
1400 - 1500	Flow Analysis Simulation for Missile System <i>Dr. R Krishnamurthy, DRDL, Hyderabad</i>	Hall - C
1500 - 1515	Tea Break	
1515 - 1615	Artificial Intelligence & Machine Learning in Defense Systems <i>Shri. R Muralidharan, TASL, Mumbai</i>	Hall - C

INAUGURAL SESSIONVenue : *Dr. APJ Abdul Kalam Auditorium, Pashan, Pune* Time : 1730 - 2030**Welcome Address by** *Dr. V Venkateswara Rao, President, INSARM***Address by** *Shri. PK Mehta, DS & DG (ACE), DRDO***Address by** *Dr. CP Ramanarayanan, VC, DIAT, Pune***Address by** *Lt Gen (Dr.) DB Shekatkar, PVSM, AVSM, VSM (Retd.)***Address by Chief Guest** *Dr. G Satheesh Reddy, Secretary, DD (R&D) & Chairman, DRDO***Address by Distinguished Guest** *Dr. VK Saraswat, Member NITI Aayog, Govt. of India***Release of Souvenir & Proceedings****Inauguration of Online Poster Session & Exhibition****Keynote Address - 01** : *Shri. S Somanath, DS & Director, VSSC, Thiruvananthapuram***Keynote Address - 02** : *Shri. M Shankaraiah, OS, ADA, Bengaluru***Presentation of Awards and Felicitations****Vote of Thanks** : *Shri. RP Pandey, Secretary, INSARM***NATIONAL ANTHEM****2030 onwards** : **Dinner****AROMI Lawns, Pashan**

Day - 02

Friday, 03 Dec, 2021

TECHNICAL SESSIONS

0830 - 0930 : **Registration** Venue : **ARDE Main Foyer**

Time	Event	Venue
0930 - 1030	Plenary Talk Dr. Unnikrishnan Nair Director, HSFC-ISRO, Bengaluru	BPPS Auditorium ARDE

1030 - 1100 : **High Tea** **ARDE Main Building**1100 - 1200 : **Technical Session - 01****1100 - 1200** **Hall - A (3rd Floor, ARDE)****Session Title** **Armament Mechanisms (ARM)**

Session Chairman	Dr. VG Sekaran DS & DG (MSS) Retd.	Session Co-Chairman	Shri. SS Kashikar Sc 'F', ARDE
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1100 - 1120 : *Invited Talk by Session Chairman*

Paper ID	Paper Title
ARMS21146	Design of Elevation mechanism for Telescopic sight of 84 mm Recoilless Launcher Weapon System <i>Ajay Vora, Gyanendra Kumar, Praveen Kumar, Rajeev Prakash, RS Rao</i>
ARMS21150	Investigation of the flight of Tank-fired Proof Shots with two different shapes <i>BM Sethi, Arkadeb Banerjee</i>
ARMS21069	Ramjet Projectile Design for Artillery Guns <i>Navaneeth P, Mythily D</i>
ARMS21055	Design Optimization of Extractor Force Transfer Mechanism <i>Ashutosh Kumar, R Shrinivasan</i>

1100 - 1200 **Hall - B (3rd Floor, ARDE)****Session Title** **Modeling & Simulation of Mechanisms (MSM)**

Session Chairman	Prof. Debasis Chakraborty Director, CoPT, IIT, Bombay	Session Co-Chairman	Shri. Deepak Maurya Sc 'F', ARDE
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1100 - 1120 : *Invited Talk by Session Chairman*

Paper ID	Paper Title
ARMS21183	CFD Simulation of Gas Operated Control Surface Deployment Mechanism for a Gun Launched Missile <i>Rahul Chopde, MV Rameshkumar</i>
ARMS21019	Separation Dynamic Analysis for Umbilical System in MSC ADAMS <i>Ashish Tomy, Surbhi Baghotia, Anoop PP, Damodaran P, Subramanian UA</i>
ARMS21035	Drive Mechanisms for Internal Weapon Bay Systems of Fighter Aircrafts: Synthesis, Kinematic Analysis and Optimization of Mechanisms <i>Ravi Yadav, Ravi Jai Prakash, MB Angadi, KS Nagesh</i>
ARMS21114	Modelling of Impulse on Closure Shell of Blast Valve <i>Praveen Kumar, Pankaj Kumar Sharma</i>

Day - 02

Friday, 03 Dec, 2021

1100 - 1200**Hall - C (3rd Floor, ARDE)****Session Title** **Launch Mechanisms (LAM)**

Session Chairman	: Dr. S Karunanidhi OS, RCI, Hyderabad	Session Co-Chairman	: Dr. B Praveen Kumar Sc 'F', ARDE
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1100 - 1120 : Invited Talk by Session Chairman

Paper ID	Paper Title
ARMS21099	Understanding the generation of rolling moment coefficient for typical launch vehicle using CFD <i>J Sreenivasulu, Sanjoy Kumar Saha, Dr. MM Patil, Dr. V Ashok</i>
ARMS21044	Design of a Pneumatic System for Stage Jettisoning for Improving Payload Capability of a Launch Vehicle <i>Mridul Songara, Shiju G Thomas, Manu V Unnithan, Abraham Varghese, Subramanian UA</i>
ARMS21012	Cooling shutter mechanism in payload fairing of a launch vehicle and its effect on compartment venting <i>B Venkat Shivaram Jadav, Manokaran, Dipankar Das, G Vidya, Dr. MM Patil, Dr. V Ashok</i>
ARMS21111	Computation on effect of retro and ullage plumes during launch vehicle stage separation <i>Ankur Nagpal, Amit Kumar Singh, Harichand MV, G Vidya, Dr. MM Patil, Dr. V Ashok</i>

1215 - 1315**Technical Session - 02****1215 - 1315****Hall - A (3rd Floor, ARDE)****Session Title** **Parachute Mechanism (PAM)**

Session Chairman	: Shri. AK Saxena OS & Director, ADRDE, Agra	Session Co-Chairman	: Shri. B. Muralidhar Sc 'F', ARDE
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1215 - 1235 : Invited Talk by Session Chairman

Paper ID	Paper Title
ARMS21026	Dynamics of Crew Module under slung helicopter <i>Abdul Salam PM, Mathew Tom, Johns Paul, Santhosh J Nalluveetil, UA Subramanian</i>
ARMS21058	Development of Four Points Swivel for Aerostat <i>KK Katiyar, Rajeev Jain</i>
ARMS21081	Development of Slider Reefing Mechanism for reduction of Opening load of Round Parachute <i>Ravi Krishna, Kamal S Nikhurpa, KD Diwakar, AK Saxena</i>
ARMS21132	Estimation of Dynamic Characteristics of Parachute using Image Processing Techniques <i>KLN Sai Nitish, Karthik B, Jayakumar M, Basker VT</i>

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Friday, 03 Dec, 2021

1215 - 1315**Hall - B (3rd Floor, ARDE)**

Session Title		Pyro Mechanism (PYM)	
Session Chairman	: <u>Shri. S Varaprasad Rao</u> Sc 'G' (Retd.), ASL, Hyderabad	Session Co-Chairman	: <u>Shri. Abhishek Gupta</u> Sc 'F', ARDE

1215 - 1235 : Invited Talk by Session Chairman

Paper ID	Paper Title
ARMS21080	Applications of High Explosive as Gas Generators <i>K Sunil Kumar, Amitabh Chakraborty, Dr. R Srinivasan, Dr. I Srikanth, Dr. S Srinath</i>
ARMS21178	Towards a Design Approach for a Pyrotechnic Pressure Generator used in Deployment Mechanisms <i>S Kumanan, GM Vineeth, S Nimesh, B Hari Hara Nath, N Vinodkumar, Baby Abraham</i>
ARMS21181	Role of High Strain Rate Material Properties in Design and Analysis of Pyro Mechanisms <i>Bishwajyoti Dutta Majumdar, Vikas, Aditya Narayan Malla, Nitish Dhawan, Sheeju Chandran, Kumar H</i>
ARMS21171	Design optimization & evaluation of a thermal barrier for an Ignition Safety Device - Solid Rocket Motor Interface <i>Shete Mayuresh Kailas, Sijimon TP, Ani Daniel Kurien, N Vinod Kumar, Baby Abraham</i>

1215 - 1315**Hall - C (3rd Floor, ARDE)**

Session Title		Quality & Reliability in Mechanism (QRM)	
Session Chairman	: <u>Dr. MRM Babu</u> DS & Director, ASL, Hyderabad	Session Co-Chairman	: <u>Dr. RS Deodhar</u> Sc 'F', ARDE

1215 - 1235 : Invited Talk by Session Chairman

Paper ID	Paper Title
ARMS21074	Predictive Maintenance of engines using state-of-the-art tools and techniques <i>Lt. Cmdr. Vijay Raghavendra, Vinoth Kumar S, CRS Kumar</i>
ARMS21068	Reliability Estimation of a Power Cartridge <i>Rishikesh Badgujar, RS Deodhar, AK Sahu, BA Parate, PK Bakshi</i>
ARMS21009	Risk Assessment of Orbital Debris Impact on Spacecraft Mechanism Element <i>Sachin Barthwal, MP Singh, Shankar Narayan YS, Shanmuga Sundaram N</i>
ARMS21049	Qualification and Acceptance of Heavy Drop Platform Assemblies - A Simulated Testing Approach <i>BK Singh, AK Saxena</i>

1315 - 1415 : Lunch**ARDE Main Building**

Time	Event	Venue
1415 - 1445	: Plenary Talk on Industry Policies <i>Dr. Nidhi Bansal</i> Director, DTDF, DRDO HQ., New Delhi	BPPS Auditorium ARDE
1445 - 1515	: Plenary Talk on Industry Policies <i>Shri. N Viswanatha</i> Former Group Director, URSC, Bengaluru	BPPS Auditorium ARDE

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Friday, 03 Dec, 2021

1520 - 1600 :

Technical Session - 03

1520 - 1600

Hall - A (3rd Floor, ARDE)

Session Title		Mechanisms in Ejection Systems (MES)	
Session Chairman	: Shri. Surendra Kumar OS & Former Director, ARDE	Session Co-Chairman	: Shri. Amit Bhetiwal Sc 'F', ARDE

Paper ID	Paper Title
ARMS21028	Stage Separation dynamic analysis with expanding bellow system <i>Siva Sakthi R, N Radha, Ravi Kumar C, Abhay Kumar</i>
ARMS21168	Design and Qualification of separation system for RLV Landing Experiment (LEX) <i>M Harish, Anjul Beohar, Binoy M, Joby Mathew George, Manu V Unnithan, Abraham Varghese, UA Subramanian</i>
ARMS21182	An Approach for Optimized Configuration of Linear Shaped Charge Based Separation Systems <i>Akhil Srivas KM, Pramod R Nair, Mohammad Munis, Piyush Kanti Kar, Alex Thomas, Ramachandran V, Baby Abraham</i>
ARMS21133	Configuration and analysis of solar array deployment mechanisms for satellite applications <i>Vijay Shankar Rai, K Balaji, BP Nagaraj, HN Suresha Kumar</i>

1520 - 1600

Hall - B (3rd Floor, ARDE)

Session Title		Failure Analysis & Case Studies (FACS)	
Session Chairman	: Shri. V Kishore Nath Prof. Satish Dhawan Scientist Former Associate Director, VSSC	Session Co-Chairman	: Shri. Ratan Lal Saini Sc 'F', ARDE

Paper ID	Paper Title
ARMS21043	Life Cycle Study of Composite Propellants based systems for Rockets and Missile Propulsion and Control Mechanisms <i>PK Mehta, A Kumaraswamy, VK Saraswat, H Shekhar, Ehtasimul Hoque, CS Pant, Sushanta Das, Srinivasan Seshadri</i>
ARMS21063	Effective Utilization of "DFMEA" to Identify Design Issues, Thereby Making a Robust Safety Arming Mechanism <i>PY Borse, AK Singh, RS Deodhar, Mehul Sirohi, PW Sonawane</i>
ARMS21024	Application of Fiber Bragg grating as Strain Sensor in Ring Laser Gyro inducted in INS <i>T Ezhilarasi, Karthigai Selvan, S Paul Pandian</i>
ARMS21030	Investigation of Shock Signatures Observed in a Flight during Stage Separation at Electronic Package Bay: A Case Study <i>Narendra Nath, Venkateswaran KP, Dr. Sundararajan T, Dr. Geetha S</i>

Day - 02

Friday, 03 Dec, 2021

1520 - 1600**Hall - C (3rd Floor, ARDE)**

Session Title		Test & Evaluation of Mechanisms (TEM)	
Session Chairman	: <i>Dr. Mahendra Jha</i> Sc 'G' (Retd.), ARDE	Session Co-Chairman	: <i>Dr. Bhupender Rawal</i> Sc 'E', ARDE

Paper ID	Paper Title
ARMS21016	Design and Testing of Dummy Hinge & Hold down Mechanism for the Dynamic Testing of Dual Gridded Reflector <i>Deepak Kumar Singh, Nitin Kumar, Samir Sakhare, Shashank Saxena</i>
ARMS21036	Simulated Wind Survivability Test for A Launch Vehicle Payload Cooling Umbilical <i>Vikas Kumar Agrawal, M Gopakumar, Damodaran P</i>
ARMS21091	Comparison of the thrust of electrohydrodynamic thruster under magnetic fields with paramagnetic and diamagnetic electrodes <i>L Yethinder Ragav, Manu Jain N, Raghu NG, Kadripathi KN, Shusheel KC</i>
ARMS21149	Uncertainty Assessment of Force Measurement Data of Wind Tunnel Tests <i>Shreyas Misra, Rakesh Kumar</i>

1600 - 1620 : Tea Break**ARDE Cafeteria****1620 - 1700 :****Technical Session - 04****1620 - 1700****Hall - A (3rd Floor, ARDE)**

Session Title		Mechanisms in Ejection Systems (MES)	
Session Chairman	: <i>Prof. Amit Kumar Gupta</i> BITS - Pilani, Hyderabad	Session Co-Chairman	: <i>Shri. Deepak Sharma</i> Sc 'F', ARDE

Paper ID	Paper Title
ARMS21077	Dynamical Study of Air Crew Ejection System <i>Dr. RB Sarsar, RS Kalaskar, Dr. SD Naik</i>
ARMS21167	Separation dynamics analysis of a Human rated Launch Vehicle Fairing <i>Ashis Kumar Samanta, Shiju G Thomas, Gopakumar M, Damodaran P, Subramanian UA</i>
ARMS21115	Quick Ejection and Unfolding Mechanism of Deployable Systems <i>Amitabh Chakraborty, Sachin Jain, D Laxman, Usha P Verma, Dr. R Srinivasan</i>
ARMS21047	Modelling and Simulation of Separation Dynamics of Twin Large Satellite Systems from Upper Stage of Launch Vehicle <i>Sivasakthi R, N Radha, C Ravikumar, Abhay Kumar</i>

Day - 02

Friday, 03 Dec, 2021

1620 - 1700**Hall - B (3rd Floor, ARDE)**

Session Title		Futuristic Mechanism (FTM)	
Session Chairman	: <i>Shri. PM Kurulkar</i> OS & Director, R&DE (E)	Session Co-Chairman	: <i>Shri. SB Mukane</i> Sc 'F', ARDE
Paper ID	Paper Title		
ARMS21072	Lateral Thrust based Course Correction Mechanism <i>Sangeeta Sharma Panda, Anandaraj A</i>		
ARMS21087	Making of Solar Powered UAV and increasing its Endurance (Time) with the help of TEG (Thermo-Electric Generator) <i>Shailesh Kumar Sah, Prajakta Koratkar</i>		
ARMS21106	AI Enabled Voice Assistant for Aircraft Maintenance <i>RK Mohapatra, Saurav Kumar, Sanket Mohanty, CRS Kumar</i>		
ARMS21022	Influence of Polyurethane Foam on the Vibration Isolation Characteristics of Nano Satellite Transportation Container (NSTC) <i>Dr. R Chaturvedi, Atul Nigotia, Mohammad Ali, A Sekar, Rajeev Bangrao, Badagandi</i>		

1620 - 1700**Hall - C (3rd Floor, ARDE)**

Session Title		Modeling & Simulation of Mechanism (MSM)	
Session Chairman	: <i>Dr. SS Ohol</i> Professor, COEP, Pune	Session Co-Chairman	: <i>Shri. Sandeep Sharma</i> Sc 'F', ARDE
Paper ID	Paper Title		
ARMS21017	Design Optimization of Small Satellite Separation System using Differential Evolution <i>Partha Ajit Surve, KK Raveendra Babu, L Sowmianarayanan, Dr. Geetha S</i>		
ARMS21020	Fractional Order Control Design for Unmanned Aerial Vehicle <i>Heera Lal Maurya, Padmini Singh, Subhash Chand Yogi, Laxmidhar Behera, Nishchal K Verma</i>		
ARMS21173	Effect of Mass Imbalance in the In-Bore Motion of Projectile <i>Tapas Ranjan Panda, Arkadeb Banerjee</i>		
ARMS21180	Analytical Ballistic Code - An Integrated Approach of Designing Pyro Mechanisms <i>Vikas, Nitish Dhawan, Kamal Saroha, Bishwajyoti Dutta Majumdar, Sheeju Chandran, Kumar H</i>		

Time	Event	Venue
1715 - 1800	INSARM General Body Meeting	BPPS Auditorium ARDE
1900 - 2030	Cultural Program	Dr. APJ Abdul Kalam Auditorium Pashan

2030 onwards : Dinner**AROMI Lawns, Pashan**

Day - 03

Saturday, 04 Dec, 2021

Time	Event	Venue
0900 - 1000	Plenary Talk Shri. Anil M Datar DS & Former DG (ACE), DRDO	BPPS Auditorium, ARDE

1000 - 1100	Technical Session - 05	
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1000 - 1100	Hall - A (3 rd Floor, ARDE)	
Session Title	Armament Mechanisms (ARM)	
Session Chairman	Shri. PT Rojatkar OS & Director, NMRL	Session Co-Chairman Shri. SG Ghume Sc 'F', ARDE

Paper ID	Paper Title
ARMS21067	Effect of In-bore Balloting of Artillery Shell at Muzzle Exit Dr. Rahul B Sarsar, LK Gite, Mohammad Aleem
ARMS21145	Survivability and Terminal Performance Evaluation of Ammunition System for Triggering of Avalanche using Explosive Rajeev Prakash, Ajay Vora, Gyanendra Kumar, RS Rao, Dr. SV Gade
ARMS21170	Automated Mine Burying Mechanism Jagat Prakash Singh, Anil Kumar Upadhyay, Ajay Kumar Gupta
ARMS21119	Mathematical Modelling and Kinetic Analysis of the Breech Block Operating Mechanism for Next Generation Main Battle Tank (NGMBT) Davinder Kumar, Karun Roat, PH Lankennavar, AK Roy
ARMS21160	Development of High Velocity Oxy-Fuel (HVOF) Thermal Spray Coating of Fe - based Amorphous Powder to Enhance the Wear Life of MBT Arjun Gun Barrel VM Nimbalkar, AK Roy, DS Gowtam, S Prasad, Mahesh Mohape, G Mahanta, SG Pandav, T Latalwar

1000 - 1100	Hall - B (3 rd Floor, ARDE)	
Session Title	Mechanisms in Automation & Robotics (MAR)	
Session Chairman	Shri. VV Parlikar DS & Former Director R&DE (E)	Session Co-Chairman Shri. Brijesh Singh Sc 'F', R&DE (E)

Paper ID	Paper Title
ARMS21086	Design And Simulation of Novel Convertible Legged-Wheel Mobile Robot Raageshver J Sood, Savitha M Jakkula, Prajakta Koratkar, Ashish Singh Rajput
ARMS21108	Development of Robotic Arm Manipulator mounted on Self Balancing Two Wheeled Mobile Robot Pranay Junare, Shaunak Mahajan, Prithvish Taukari, Anirudh Nallawar, Dr. SS Ohol
ARMS21066	SLAM based Autonomous Navigation of Differential Wheeled Robot using Laser Scanner and Robot Operating System Manish Pujari, Ms. Prajakta V Koratkar
ARMS21042	Automated Test Jig for Electrical Isolation Test of Electrically Integrated Sections of Aerospace Vehicles Arvind Kushwaha, Pramod Kumar Jha, Praveen Tandon, Suresh Kumarsiripuram
ARMS21084	Design and Construction of a Robotic Arm for Machining Solid Propellants Venkatesh Kumar M, Manikandan K, Hari Krishnan R, Sreehari VM

Day - 03

Saturday, 04 Dec, 2021

1000 - 1100**Hall - C (3rd Floor, ARDE)**

Session Title		Fuze Mechanisms (FUM)	
Session Chairman	: <u>Dr. GG Dutta</u> Director, JCBCAT, Kolkata	Session Co-Chairman	: <u>Shri. Ajay Kumar Singh</u> Sc 'F', ARDE

Paper ID	Paper Title
ARMS21095	Theoretical Model of Latching Switch Assembly for Fuze <i>Mehul Sirohi, Prabhakar Kumar, S Rambabu</i>
ARMS21105	Development of a MEMS Threshold g-Switch with Enhanced Contact Time <i>Murugappan Ramanathan, Rajkumar, Prosenjit Sen, Rudra Pratap Pandey</i>
ARMS21131	Performance enhancement of Safety Arming Mechanism (SAM) with a triple lock system for Electro-Mechanical Impact Fuze for 40mm Grenade <i>NR Gawali, Rahul, Jaihind, S Rambabu</i>
ARMS21038	Simulation and Analysis of Mechanical Timer for Five-minute Arming Delay for Fuze mechanism of land-based munitions <i>SR Parmar, PK Choudha, Haribhau Markale, VK Dixit, Mahesh Wakchaure</i>
ARMS21104	All ways Quick Response Impact Sensing Mechanism <i>Prabhakar Kumar, SS Uppin, S Rambabu</i>

1100 - 1130 : Tea Break**ARDE Cafeteria****1130 - 1210 :****Technical Session - 06****1130 - 1210****Hall - A (3rd Floor, ARDE)**

Session Title		Launch Mechanisms (LAM)	
Session Chairman	: <u>Dr. Manmohan Singh</u> OS & Former Director, VRDE	Session Co-Chairman	: <u>Shri. Satpal Singh</u> Sc 'F', ARDE

Paper ID	Paper Title
ARMS21073	Assessment of Numerical Simulation of Store Separation from Fighter Aircraft using Instrumented Flight <i>Sunil Hiwale, Sangeeta Sharma Panda, AS Badrinarayanan</i>
ARMS21071	Parametric study of Initial Yaw & its Rate induced by In-bore Dynamics for FSAPDS Ammunition <i>Sangeeta Sharma Panda, LK Gite, Anandaraj A</i>
ARMS21117	Release Basket Computation for Air to Surface Guided Weapon <i>Shweta Dadarya, Richa Jaitly, Deepak Maurya, Kishore B Jadhav</i>
ARMS21051	Advancement In Development of Controller for Road Mobile Launchers <i>Jatin kumar Janshali, GRM Rao</i>

Day - 03

Saturday, 04 Dec, 2021

1130 - 1210**Hall - B (3rd Floor, ARDE)**

Session Title		Pyro Mechanism (PYM)	
Session Chairman	: <i>Dr. Baby Abraham</i> OS, DD/ASOE, VSSC	Session Co-Chairman	: <i>Shri. JA Manore</i> Sc 'E', ARDE

Paper ID	Paper Title
ARMS21093	Double - Action Initiating Mechanism for a Detonation Circuit <i>SS Khandagale, Prabhakar Kumar, KD Deodhar, VK Dixit, S Shrivastava</i>
ARMS21125	Pyrotechnic Reefing Cutter for airborne decent devices of Sahayak Mk-I Aircraft <i>P Saha Chowdhury, ND Mhaske, MA Siddiqui, SV Pedgaonkar</i>
ARMS21169	Redundant Detonator Initiator Scheme for Canopy Severance System <i>DM Munemanik, DY Gaikwad, RB Lawate, SS Khandagale, KD Deodhar</i>
ARMS21124	Challenges in development of Ø50 mm IR Flare for protection of SU-30 MKI aircraft against IR guided missiles <i>S Debnath, Abhishek Raj, PK Rej, SV Pedgaonkar</i>

1130 - 1210**Hall - C (3rd Floor, ARDE)**

Session Title		Test & Evaluation of Mechanism (TEM)	
Session Chairman	: <i>Shri. Haribhau M</i> Sc 'G' (Retd.), ARDE	Session Co-Chairman	: <i>Shri. Dharamraj Singh</i> Sc 'F', ARDE

Paper ID	Paper Title
ARMS21109	An Instrumented Experimentally Measured Dynamic Parameters of a Recoil System of 155 mm Gun <i>DU Bagde, Devyani K Jadhav, AA Babar</i>
ARMS21116	Range Safety Assessment for Air delivered Guided Weapon <i>Balkrishna Prasad, Shweta Dadarya, KB Jadhav</i>
ARMS21154	Real Time Hardware in Loop Simulation for Precision Guided Munition Using LabVIEW <i>Shalini Gupta, R Jaitly, BK Prasad, Shweta Dadarya, KB Jadhav</i>
ARMS21148	Development of Automated Test Equipment for Controller based Actuation Control Unit <i>Papiya Das, CC Dharmani, KB Jadhav</i>

1215 - 1300**Technical Session - 07****1215 - 1300****Hall - A (3rd Floor, ARDE)**

Session Title		Warhead Mechanisms (WHM)	
Session Chairman	: <i>Shri. VK Dixit</i> OS & Associate Director, ARDE	Session Co-Chairman	: <i>Dr. KD Dhote</i> Sc 'F', ARDE

Paper ID	Paper Title
ARMS21123	Innovative Design of Cylindrical Detonation Wave Initiation System for Multilayered KE Rod Warhead <i>MV Suryawanshi, B Raghu Varna, PN Verma, KD Dhote, Satwinder Singh</i>
ARMS21128	Insensitive Munition (IM) Compliance Tests for Pre-Fragmented (PF) Warhead <i>(Ms)DN Joshi, KK Kulhare, Satwinder Singh, VK Dixit</i>
ARMS21126	Performance Evaluation of a Hybrid Warhead for Enhanced Blast Applications <i>MS Katore, AK Vishwakarma, AW Gaikwad, M Balaji, J Saji</i>
ARMS21122	Methodology to evolve network of channels for hydra-based plane wave initiation <i>PN Verma, MV Suryawanshi, KD Dhote, S Harikrishnan, VK Dixit</i>

Day - 03

Saturday, 04 Dec, 2021

1215 - 1300**Hall - B (3rd Floor, ARDE)**

Session Title		Futuristic Mechanism (FTM)	
Session Chairman	: Shri. KK Pathak Director, DFTM, DRDO HQ., New Delhi	Session Co-Chairman	: Ms. Vaishnavi M Sc 'F', ARDE

Paper ID	Paper Title
ARMS21137	Foot Trajectory Planning for Legged Robot - A Linear-Cubic Curve Approach Vijay Kumar Haldiya, Pankaj Kumar Sharma
ARMS21177	Mechanism for Automatic Creation of Pit and Bury the Object into Pit Jagat Prakash Singh, Chandrakant Supare, Ganesh Mutkule, V Ovhal
ARMS21138	Design and Performance Analysis of Robotic Jellyfish for Underwater Surveillance Manufactured as a Soft Robot Rushikesh Pachghare, Mihir Deshmukh, Dr. SS Ohol
ARMS21139	Dual Function Spin Decay Safe Arm Mechanism Prabhakar Kumar, SS Uppin, S Rambabu

1215 - 1300**Hall - C (3rd Floor, ARDE)**

Session Title		Mechanisms in Electrical Systems (MEL)	
Session Chairman	: Dr. Mukul Sarkar Professor, IIT, Delhi	Session Co-Chairman	: Shri. KB Jadhav Sc 'F', ARDE

Paper ID	Paper Title
ARMS21100	High Frequency Micro-Spherical Transducer for Underwater Sensing Mechanisms in Naval Armament Dr. CM Lonkar, SD Shinde, Dr. B Praveen Kumar, IR Abisekaraj
ARMS21144	Design of Semiconductor Switching Mechanism for a 400 KJ module for Railgun Applications Gaurav Kumar, Satyam Swarup, Shivam Rajput, Nomula A Prasanth, Pradeep Kumar, Dr. SK Nayak
ARMS21152	Development of Miniaturized & Ruggedized On-board Telemetry for Performance Evaluation of a Typical Laser Guided Missile CP Singh, P Nagrale, SS Kulkarni, D Tilante, Jayashri Shikhare, DT Korade, SC Rana, Dr. BB Padhy
ARMS21156	Design of GPS Microstrip Patch Antenna (MPA) for Guided Projectile Applications Swapnil Narke, DC Gharpure, CP Singh, Shyamala Kulkarni, Dr. BB Padhy

1300 - 1345 :**Panel Discussion****1345 onwards** : **Lunch****ARDE Main Building****Hall-Wise Sessions & Themes**

SESSION	HALL - A	HALL - B	HALL - C
S - 01	ARM	MSM	LAM
S - 02	PAM	PYM	QRM
S - 03	MES	FACS	TEM
S - 04	MES	FTM	MSM
S - 05	ARM	MAR	FUM
S - 06	LAM	PYM	TEM
S - 07	WHM	FTM	MEL