Date: 16 November 2018

Time	Event	Venue
0830 - 0900 Hrs	Registration	BITS Auditorium
0900 - 1010 Hrs	Inaugural Function	AUDITORIUM
1010 - 1055 Hrs	Plenary Talk -I Topic: Launch Vehicle Mechanisms Shri. S. Somanath, Director VSSC, Trivandrum	AUDITORIUM
1110 - 1140 Hrs	Tea Break	AUDITORIUM

Session 1: Hall A (F 206) Topic: Satellite, Robotics, Space docking and Rover mechanisms Session Chair: Dr. C.D. Sridhara, Ex. Deputy Director, URSC, ISRO Session Coordinator: Dr.K.VeeraBrahmam, Sc-E/Y.Raj Alexander, Sc-D, ASL		Session 1: Hall B (F 207) Topic: Simulation, Analysis and Modeling of Aerospace mechanisms Session Chair: Prof. Prasanna Gandhi, IIT, Mumbai. Session Coordinator: Shri. A.K. Sharma, Sc-E/N. Madhavan, Sc-E, ASL
11-45- 12-15 Hrs	Invited talk-1 (I.T-1) Topic: Mechanisms for Moon Missions Dr. C.D. Sridhara, Ex. Deputy Director, URSC, ISRO	Invited talk-2 (I.T-2) Topic: Compliance Mechanisms Prof. Prasanna Gandhi, IIT Mumbai.
1215 - 1225 Hrs	1.1. Solar Array Drive Mechanism: Design, Build and Environmental Testing Dr. Shashank Khurana, BITS-DUBAI	2.1 Contact Force Based Model to Simulate Impact Between Missile and Interceptor Projectiles Mahesh Kotnis, IITB Mumbai
1225 - 1235 Hrs.	1.2. Configuration Studies On Parabolic Deployable Antenna Structure Using Bennett Linkages Khagesh Bhardwaj, U.R.Rao Satellite Center/IIST	2.2 Design & Simulation of Mechanism for Automated Material Handling of Armature Store Tamanna Pattharwala, ARDE/DRDO
1235 - 1245 Hrs.	1.3. Deployment Dynamics of an Unfurlable Antenna(UFA) Anshumaan Sharma, U.R.Rao Satellite Center	2.3 Design and Simulation of Geometrically Articulated Suspension System for Autonomous Ground Vehicle System Keyur Kurulkar, MIT Pune/DRDO
1245 - 1255 Hrs	1.4. Thermal Distortion of Stowed UFA in Transfer Orbit K Balaji, U.R.Rao Satellite Center	2.4 Design of Automated Test Systems for Mechanisms Performance Evaluation Phani Dinakar BS, URSC-ISRO
LUNCH BREAK : 13-00 - 14-00 Hrs		

16 - Nov - 2018 (After Noon Session)

ri. R.Swaminathan,DS, ADA, Bangalore	Session 2: Hall B (F 207) Topic: Simulation, Analysis and Modeling of Aerospace mechanisms Session Chair: Dr.S.Karunanidhi, Director, CSL, RCI Session Coordinator: Shri. A.K. Sharma, Sc-E/N. Madhavan, Sc-E, ASL
Invited talk-3 (I.T-3) Topic: Combat Aircraft Mechanisms Shri. R.Swaminathan,DS, ADA, Bangalore	Invited talk-4 (I.T-4) Topic: Control Actuation Mechanisms Dr.S. Karunanidhi, Director, CSL, RCI
1.5. Development of Non Explosive, Low Shock & Reusable Actuator(NLR) Solar Array Hold-Down Release Mechanism(HDRM) For Spacecraft Application Sajeesh K N, U.R.Rao Satellite Center	2.5. Dynamic Studies for On Orbit Space Craft Docking Experiment Vijay Shankar Rai, URSC
1.6. Hold Down and Release Mechanism for Deployable Lander Leg. Sakthivel M, U.R.Rao Satellite Center	2.6. Dynamics of Separation of Liquid Stage with Twin Engine Configuration from A Longer Pull-Out of Upper Stage Yuvaraja R, VSSC-ISRO
1.7. Hold Down and Release Mechanism for Large Solar Array Deployment Mechanism Shalini, U.R.Rao Satellite Center	2.7. Dynamics of Separation of Multiple Satellites Placed Inside Dua Launch Adaptors Sivasakthi R, VSSC-ISRO
3.1. Reliability Norms for Research & Development (R&D) Activity Manmeet Singh, HQ-DRDO	2.8. Kinematic Analysis of Store Separation Dynamics in Sub-Munition Type Warheads of Large Calibre Artillery Rocket Gaurav N Argade, ARDE-DRDO
3.2. Reliability Analysis of Capture Mechanism for Space Docking Experiment(SPANDEX) Sachin Barthwal, URSC	2.9. Predicting The Trajectory of External Ejected Store from Fighter Aircraft by Numerical Simulation Venkata Mahesh Punugu, R&DE
3.3. Fault Detection Study of Inflatable Structure: An FMEA Approach Arvind Kaushik, ADRDE	2.10. Mathematical Modeling and Simulation of Store Separation of Military Aircraft Akash Jadhav, KJEIT COE-PUNE
)	Invited talk-3 (I.T-3) Topic: Combat Aircraft Mechanisms Shri. R.Swaminathan,DS, ADA, Bangalore tor: Dr.K.VeeraBrahmam,Sc-E/ Y.Raj Alexander, Sc-D, ASL Invited talk-3 (I.T-3) Topic: Combat Aircraft Mechanisms Shri. R.Swaminathan,DS, ADA, Bangalore 1.5. Development of Non Explosive, Low Shock & Reusable Actuator(NLR) Solar Array Hold-Down Release Mechanism(HDRM) For Spacecraft Application Sajeesh K N, U.R.Rao Satellite Center 1.6. Hold Down and Release Mechanism for Deployable Lander Leg. Sakthivel M, U.R.Rao Satellite Center 1.7. Hold Down and Release Mechanism for Large Solar Array Deployment Mechanism Shalini, U.R.Rao Satellite Center 3.1. Reliability Norms for Research & Development (R&D) Activity Manmeet Singh, HQ-DRDO 3.2. Reliability Analysis of Capture Mechanism for Space Docking Experiment(SPANDEX) Sachin Barthwal, URSC 3.3. Fault Detection Study of Inflatable Structure: An FMEA Approach

16 - Nov - 2018 (Evening Session)

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Session 3: Hall A (F 206)		Session 3: Hall B (F 207)
Topic: Warhead, Armaments, fuses and safe arm		Topic: Mechanisms in Launch vehicles and missiles
Chair: Shri. Var	aprasad Rao, Ex. DRDO, ASL	Chair: Dr.Debasish Chakraborthy, O.S, DRDL
Session Coording	ator: Dr.K.VeeraBrahmam,Sc-E/ Y.Raj Alexander, Sc-D, ASL	Session Coordinator: Shri. A.K. Sharma, Sc-E / N. Madhavan, Sc-E, ASL
1605-1615 Hrs	4.1. Development of Spin Based Safety Interlock for a Miniaturized Mechanical Fuze for Anti-Aircraft Ammunition Nr Gawali, Arde/Drdo	5.1 Challenges in Design of Separation for Two Identical Satellites Configuration D.Vamsi Krishna, Vssc
1615-1625 Hrs	4.2. Dual Mode Indirect Type Actuation Mechanism for Land Based Munitions Ak Srivastava, Arde/Drdo	5.2 Design of Missile Holding Mechanism Inside a Canister Ravi Tiwari, R&De/Drdo
1625-1635 Hrs	4.3. Recoil Mitigation System for Light Machine Gun Harshpreet Singh, Irde/Drdo	5.3 Design of Sliding Door Operating Mechanism for Internal Weapon Bay Chandrakant Waghmare, Diat/Drdo
1635-1645 Hrs	4.4. Study and Design of Steel Reinforced Polymer Magazine for Automatic Rifles Pssrk Prasad, Arde/Drdo	5.4 Development of Multiple Capacity, Portable System for Accurate Mass Properties Measurement of Spacecraft P Shravan Kumar, Ursc-Isro
1645-1655 Hrs	4.5. Structural Assessment of the Igniter Interface of a Special Purpose Solid Motor for Isro's Human Space Flight Swapnil Kumar, VSSC	5.5 Pressure Control Mechanisms for Aerostats Vikas Rana, Adrde/Drdo
1700-1730 Hrs Sponsors Presentations (Venue: BITS Auditorium)		
	1830-2000 Hrs Cultural Progra	mme (Venue: Leonia)
	2000- 2200 Hrs Dinner (Venue:	Leonia)

Date: 17 November 2018

Time	Event	Venue
	Plenary Talk -II	AUDITORIUM
0900 - 0945 hrs	Topic: Mechanisms in Armaments	
	Dr.K.M.Rajan, D.S, Director, ARDE, Pune	
	Plenary Talk -III	AUDITORIUM
0945 - 1030 hrs	Topic: Man mission mechanisms	
	Dr.S. Unnikrishnan Nair, PD,ASTS, VSSC	
1030 - 1100 hrs	Tea Break	AUDITORIUM

Session 4: Hall A (F 206) Topic: Ignition System, Explosives and Flow control systems Session Chair: Dr.A.Subhananda Rao, Ex. D.G(Aero), HEMRL, DRDO Session Coordinator: Dr.K.VeeraBrahmam, Sc-E/Y. Raj Alexander, Sc-D, ASL		Session 4: Hall B (F 207) Topic: Testing of mechanisms Session Chair: Shri. V.V.Parlikar, R&D(E), Pune, DRDO Session Coordinator: Shri. A.K. Sharma, Sc-E/N. Madhavan, Sc-E, ASL
1100- 11-30 Hrs	Invited Talk-5 (I.T-5) Topic: Explosive based Mechanisms Dr.A.Subhananda Rao, Ex.DG(Aero), DRDO	Invited Talk-6 (I.T-6) Topic: Robotics Mechanisms Shri. V.V.Parlikar, R&D(E), Pune, DRDO
1130-1140 Hrs	6.1 A Design and Development Approach of Cartridge Cable Cutter for Helicopter Application Bhupesh Ambadas Parate, ARDE/Drdo	7.1 Ejection Experiment Facility (E2f) At R&De Vikas Jawaria, R&DE/Drdo
1140-1150 Hrs	6.2 Effect of Wave Shaper in Shaped Charge Warheads Mukesh Kumar, TBRL/DRDO	7.2 Experimental Investigation of Aerodynamic Interference of Fore Body On Parachute Vipin Kumar Verma, ADRDE/DRDO
1150-1200 Hrs	6.3 Landing Gear Shock Absorber Design and Experimental Validation for an UAV Vijayvittal P.Nadagouda, ADE/DRDO	7.3 Random Vibration Test of Aircraft Store Release & Ejection Mechanism (ASREM) Paras Ram, R&DE/DRDO
1200-1210 Hrs	6.4 Mathematical Modelling of Electro-Hydrostatic Actuation System Atul S Vivek, VSSC	7.4 Development of pyro based closure severance system for turbine nozzle of cryogenic engine Ciju Paul, VSSC, ISRO

1210-1220 Hrs	6.5 Sneak Paths in Launch Vehicle Pyro Electrical Systems and Its Mitigation N.Sairam, VSSC	7.5 Simulation Based Design of Flap Deployment Mechanism P.Vasundhara Kumari, DRDL
1220-1230 Hrs	6.6 Design of Fins Deployment, Tail Unit Locking and Release Mechanism of Multistage Rocket Assisted Bomb for 120mm Mortar Millind S Bokade, ARDE	7.6 Separation Dynamic Analysis of Dual Satellite Simultaneous Separation Studies Narendra Nath, VSSC
1230-1240 Hrs	6.7 Design and Analysis of Drive System for an Eccentrically Loaded Bowl Used in Mixing of Hazardous Propellants D Debnath, HEMRL	7.8 Design & Development of Advanced Parachute for Paratrooper Vipin Kumar Verma, ADRDE/DRDO
1240-1250 Hrs	6.8 Design and Analysis of a Fixture to Check the Health of Reaction Control System(RCS) Of an Aerospace Vehicle Vikranth Sagar Reddy, BITS - Pilani	7.9 Performance Evolution of Ram Air Parachute for Tandem Applications Vipin Kumar Verma, ADRDE/DRDO
LUNCH BREAK : 1300 to 14-00 Hrs		

17 - Nov - 2018 (After Noon Session)		
Session 5: Hall A (F 206)		Session 5: Hall B (F 207)
Topic: Future Ae	rospace Mechanisms	Topic: Advanced Aerospace Mechanisms
Session Chair: Shri. A.K.Saxena, ADRDE, DRDO		Session Chair: Dr. Niladri Sarkar, BITS, Pilani, Rajasthan
Session Coordinator: Dr.K.VeeraBrahmam, Sc-E/Y. Raj Alexander, Sc-D, ASL		Session Coordinator:Shri. A.K. Sharma,Sc-E / N Madhavan, Sc-E, ASL
14-00 - 14-30 Hrs	Invited talk-7 (I.T-7)	Invited talk-8 (I.T-8)
	Topic: Space Recovery Mechanisms	Topic: Recursive convolution finite Difference time domain method for
	Shri. A.K.Saxena, ADRDE, DRDO	targets with plasma sheath in stealth technologies
		Dr.Niladri Sarkar, BITS, Pilani, Rajasthan
1430-1440 Hrs	8.1. Passive Flexural Ring Micro-Vibration Isolator for Spacecraft Actuators Abhilash M, ISRO ISU	9.1. Design of Elevation and Azimuth Mechanism for Missile Canisters Payload Prasad S Shivdas, R&DE/DRDO
1440-1450 Hrs	8.2. Composite Nano Ferrite Substrate Based Miniaturized Patch Antenna for Onboard Sensor in Proximity Fuzes Ashish Saini, TBRL/DRDO	9.2. Finite Element Analysis of Wooden Skid Board Used to Drop Logistics from Aircraft Pradeep Kumar Pal, ADRDE/DRDO

1450-1500 Hrs	8.3. Conceptual Design and Sizing of a Wing-Tip Extension Mechanism for HALE UAV Tanisha Joshi, IITB	9.3. Design and Synthesis of Robotic Manipulator for Space Debris Removal and Satellite Refueling Biju Prasad B, VSSC-ISRO
1500-1510 Hrs	8.4. Novel Concept for A Steerable and Anchorable Tumbleweed Rover Manavi Araga, IISST	9.4. Design of Large Deflecting Flexural Beam for Compliant Mechanisms P.N.Verma, VSSC-ISRO
1510- 1520 Hrs	8.5. Modeling and Simulation of a Stewart Platform Based Docking Mechanism ArunChand CV, Samson A, CoE, Thiruvananthapuram	9.5. Mathematical Modeling and Numerical Simulation of Programmable Feel Unit Mukesh S Baghel, R&DE
1520-1530 Hrs	8.6. Aerial Plane Concept for Martian Application Krishna Kaushik Yanamundra, BITS-DUBAI	9.6. Design and Modeling of Span OWise Adaptive Wings for A Reconfigurable VTOL Kunal Gajanan Nandanwar, BITS-P
	TEA BREAK : 15-30	to 16-00 Hrs
	1600 - 1630 Hrs : Panel Discussion	Venue: HALL- A (F 206)
	1630 – 1700 Hrs : Valedictory function	Venue: Auditorium
	1700 - 1730 Hrs : AGM Meeting	Venue: HALL-B (F207)

Contact Persons:

HALL-A: 1. Dr.K.VeeraBrahmam, Sc-E (M: 9441426860) / Shri. Y. Raj Alexander, Sc-D (M: 9908572957)

HALL-B: 1. Shri. A.K.Sharma, Sc-E (M: 9490956564) / Shri.N.Madhavan, Sc-E (M: 9490956639)