



AEROCON 2024 Sustainability & Circularity in Aerospace – Trends, Challenges & Opportunities June 6-7, 2024 Bangalore

Venue: HAL Management Academy, Bengaluru, Karnataka https://maps.app.goo.gl/34snEGD7jMhr3mcr9

> V-28-Apr-2024 (Draft program subject to revision)



AeroCON2024

Conference Program







Day 1- June 6, 2024

Time	Session		Venue
08:00-09:00AM	Registration		
	Technical Sessions: Papers, Oral Presentations, Tra	ck Invited Talks	
09:00- 10.40AM	Track: Flight & Space Dynamics	Session#: D1H1S1	Hall1
	Track: Materials, Structures & Manufacturing	Session#: D1H2S1	Hall2
	Track: Aerospace Systems Engineering	Session#: D1H3S1	Hall3
	Track: Sustainability & Circularity	Session#: D1H4S1	Hall4
10.40- 11.00AM	Tea Break & Exhibition		
11:00 – 12:40 PM	Inaugural Function		
12.40-02.00PM	Lunch & Exhibition		
	Technical Sessions: Papers, Oral Presentations, Tra	ck Invited Talks	
02:00 - 03.40 PM	Track: Flight & Space Dynamics	Session#: D1H1S2	Hall1
	Track: Materials, Structures & Manufacturing	Session#: D1H2S2	Hall2
	Track: Avionics Systems	Session#: D1H3S2	Hall3
	Track: New Technologies Integration	Session#: D1H4S2	Hall4
03.40 - 04.00 PM	Tea Break & Exhibition		
04.00 - 05.40 PM	Track: Flight & Space Dynamics -	Session#: D1H1S3	Hall1
	Track: Materials, Structures & Manufacturing	Session#: D1H2S3	Hall2
	Track: Aerospace Systems Engineering	Session#: D1H3S3	Hall3
	Track: SAE Invited Talks	Session#: D1H4S3	Hall4



Notation: D1H1S1 – implies Day 1, Hall 1, Session 1



Day 2- June 7, 2024

Time	Topic	Venue			
	Technical Sessions: Papers, Oral Presentations, Tr	ack Invited Talks			
09:00- 10:40 AM	Track: Flight & Space Dynamics	Session#: D2H1S1 Hall1			
	Track: Materials, Structures & Manufacturing	Session#: D2H2S1 Hall2			
	Track: Avionics Systems	Session#: D2H3S1 Hall3			
	Track: Sustainability & Circularity	Session#: D2H4S1 Hall4			
10:40- 11:00 AM	Tea Break & Exhibition				
11:00-12:50 PM	Plenary Sessions				
12:50- 02:00 PM	Lunch & Exhibition				
	Technical Sessions: Papers, Oral Presentations, Track Invited Talks				
02:00- 03.40 PM	Track: Flight & Space Dynamics	Session#: D2H1S2 Hall1			
	Track: Materials, Structures & Manufacturing	Session#: D2H2S2 Hall2			
	Track: Aerospace Systems Engineering	Session#: D2H3S2 Hall3			
	Track: New Technologies Integration	Session#: D2H4S2 Hall4			
03.40- 04.00 PM	Tea Break & Exhibition				
04.00 – 05.00 PM	Valedictory & Awards Ceremony				



Notation: D2H1S1 – implies Day 2, Hall 1, Session 1



D1H1S1: Flight & Space Dynamics Track - Hall 1 – 9 AM to 10:40 AM – 6th June

Track Chairs	• Prof. Srisha Rao, IISc • Prof. N Balakrishnan, IIS
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
09.00 - 09.20 AM	Paper	24AC-0058 / 2024-26-0441	On the Aero-Th Configurations Gopinath Naga Aerospace; Deb
09:20 – 09:40 AM	Paper	24AC-0278 / 2024-26-0442	High Payload F Chandana G, G Engineering
09:40 – 10:00 AM	Paper	24AC-0289 / 2024-26-0443	Numerical Inve M Ananth Padn of Applied Scier
10:00 – 10:20 AM	Paper	24AC-0050 / 2024-26-0444	Enhancing Sust Platforms Sayooj Adavala Collins Aerospa
10:20 – 10:40 AM	Oral	24AC-0120	Enabling Airfra - Recommende Jaya Raju NAM



SC

Title & Authors

Thermo-Structural Performance of Rectangular and Axisymmetric Scramjet s

arajan Kirupakaran, Indian Institute of Science; Govindarajan K V, BrahMos biprosad Roy Mahapatra, Indian Institute of Science

Fraction UAV Design and Performance Evaluation

Shashank Gowda, Adithya Sayeeganesh, Ram Rohit Vannarth, BMS College of

estigation of the Aerodynamic Characteristics of a Missile Geometry at Mach 4 manabha, Bhoomika Prasad, Jayahar Sivasubramanian, M.S. Ramaiah University ences

tainable Aviation through Contrail Management – A Framework for Multiple

ath Puthiyaveettil, Suresh Padmanabhan, Bhargav HoskoteHanumanthaRao, ace

ame Structures Modelling and Simulation as Certification Means of Compliance ed best practices to demonstrate M&S credibility

ALA, Airbus Group India Pvt , Ltd.





D1H1S2: Flight & Space Dynamics Track - Hall 1 – 2 PM to 03:40 PM – 6th June

Track Chairs	• Prof. Srisha Rao, IISc • Prof. N Balakrishnan, IIS
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
02.00 - 02.20 PM	Invited	_	Invited talk by I Simulations, Ai
02:20 – 02:40 PM	Paper	24AC-0118 / 2024-26-0446	Numerical Inve Angles of Attac Sushmita Deka,
02:40 – 03:00 PM	Paper	24AC-0125 / 2024-26-0447	Static Aeroelas Vehicle Ashok Gandhi F Engineers India
03:00 – 03:20 PM	Paper	24AC-0032 / 2024-26-0449	CFD Analysis o f Dinesh Babu Va
03:20 – 03:40 PM	Paper	24AC-0130 / 2024-26-0450	Analysis for Eff Pravin P Hujare Peace Universit Information Tec



SC

Title & Authors

Pierre Alexandre Bourbon, Senior Manager and Head of Advanced Numerical Airbus

vestigation of Aerodynamic Characteristics on a Blunt Cone Model at Various tick under Hypersonic Flow Regimes

a, Abhishek Kamal, Sanjukta Patra, Niranjan Sahoo, Indian Institute of Technology

stic Analysis and Study of Control Effectiveness of a Typical Reusable Launch

Pavanasam, Indian Space Research Organisation; Mary Anil, Tecnicas Reunidas a Pvt. L; Jancy Rose, Indian Space Research Organisation

of Cavitation in a Flow through GERotor Pump

/asudevan, Vijay Kumar Turaga, HCL Technologies Ltd.

fect of Angle of Attack on Coefficient of Lift of Wing Structure

e, Vishwakarma Institute of Information Technology; Deepak P Hujare, MIT World ity; Prateek Choudhary, Abhishek Sakat, Rushil Karanjkar, Vishwakarma Institute of echnology





D1H1S3: Flight & Space Dynamics Track - Hall 1 – 4 PM to 05:40 PM – 6th June

Track Chairs	• Prof. Srisha Rao, IISc • Prof. N Balakrishnan, IIS
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
04.00 - 04.20 PM	Paper	24AC-0158 / 2024-26-0451	Experimental A in Stress Wave Abhishek Kama
04:20 – 04:40 PM	Paper	24AC-0188 / 2024-26-0452	Dynamic Ascer and Post Flight Mahind Jayan, Research Organ
04:40 – 05:00 PM	Paper	24AC-0131 / 2024-26-0453	Structural Loac Subash S, Girisł
05:00 – 05:20 PM	Paper	24AC-0209 / 2024-26-0454	Configuration Reusable Laun Vivekanand V, V
05:20 – 05:40 PM	Paper	24AC-0233	Experimental I Sushmitha Jana



SC

Title & Authors

Analysis of Force Recovery and Response Time using Strain Measurement Sensors e Force Balance

al, Sushmita Deka, Niranjan Sahoo, Vinayak Kulkarni, Indian Institute of Technology

nt Loads Estimation of Winged Reusable Launch Vehicle: Formulation, Analysis t Studies

, VSSC, Indian Space Research Organization; Ashok Gandhi Pavanasam, Indian Space Inization; Sajan Daniel, VSSC, Indian Space Research Organization

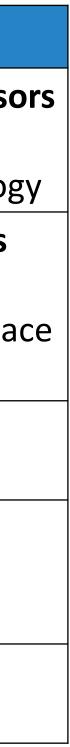
ds for Crew Escape System (CES) of Gaganyaan Launch Vehicle During Abort sh Babu P, Sajan Daniel, VSSC, Indian Space Research Organization

and Design of Mobile Checkout System for Ground Testing of Winged Body ich Vehicle

Vikram Sarabhai Space Centre

Investigation of a Curved Compression Ramp Air Intake at Mach 6 akiram, Subrahmanyam Duvvuri, Indian Institute of Science





D2H1S1: Flight & Space Dynamics Track - Hall 1 – 9 AM to 10:40 PM – 7th June

Track Chairs	• Prof. Srisha Rao, IISc • Prof. N Balakrishnan, IIS
Host	• << SAE AeroForum>>

Time	Category	ID#	
09.00 - 09.20 AM	Paper	24AC-0247 / 2024-26-0455	Development o Lander Mohammed Sa Physical Resear Vikram Sarabha
09:20 – 09:40 AM	Paper	24AC-0256 / 2024-26-0456	Design of Mini - Sushanth Sures Sarabhai Space
09:40 – 10:00 AM	Paper	24AC-0293 / 2024-26-0457	Stability of Hyp Urvi Sanjiv Meł
10:00 – 10:20 AM	Paper	24AC-0295 / 2024-26-0458	Development o Satellites Johns Paul, Abo Sarabhai Space
10:20 – 10:40 AM	Oral	24AC-0249	Control of large Subhajit Das, Subhajit Da



БС

Title & Authors

of Deployment Mechanism for RAMBHA-LP Payload Onboard Chandrayaan-3

abir Alam, Johns Paul, Vikram Sarabhai Space Centre; Nirbhay Kumar Upadhyay, arch Laboratory; Santhosh J Nalluveettil, Gollangi Sateesh, Jothiramalingam A, nai Space Centre

i-Hexapod Rover System for Future Lunar Exploration

esh Shanbhag, Nidhi, Shachindra Sharma, Krishna Damurothu, R Sandeep, Vikram e Centre

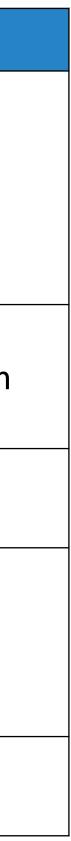
vpersonic Boundary Layers on Flat Plates with Sharp and Blunt Leading Edges ehta, Jayahar Sivasubramanian, Ramaiah University of Applied Sciences

of INLS 3U Unipod Nano Satellite (CubeSat) Dispenser System for 3U Class

odul Salam PM, Rajeev P, Santhosh J Nalluveettil, Jothiramalingam A, Vikram e Centre

ge-amplitude unsteadiness over axisymmetric bodies in high-speed flow Subrahmanyam Duvvuri, Indian Institute of Science





D2H1S2: Flight & Space Dynamics Track - Hall 1 – 2 PM to 03:40 PM – 7th June

Track Chairs	• Prof. Srisha Rao, IISc • Prof. N Balakrishnan, IIS
Host	• < <sae aeroforum="">></sae>

1				
	Time	Category	ID#	
	02.00 - 02.20 PM	Invited	_	Invited Talk by DRDO
	02:20 – 02:40 PM	Paper	24AC-0124 / 2024-26-0459	Fast Coupled Lo Sample Proble Kottresh Kurud Research Organ
	02:40 – 03:00 PM	Paper	24AC-0291 / 2024-26-0460	A Comparative Airfoils Lochan M N, Ra Applied Science
	03:00 – 03:20 PM	Paper	24AC-0137 / 2024-26-0461	Post Flight Sim Vehicle During Raji R, Jancy Ro
	03:20 – 03:40 PM	Oral	24AC-0260	Unsteady Flow Sai Prasad Moh



SC

Title & Authors

Mr A Vadivelan, Associate Director, Aeronautical Development Establishment,

oad Analysis through Reanalysis Technique: Formulation and Demonstration on ems

dimath, Vikram Sarabhai Space Centre; Salil Kanj Jalan, Jancy Rose, Indian Space Inisation

e Study of RANS and Machine Learning Techniques for Aerodynamic Analysis of

Rakshitha N, B K Swathi Prasad, Jayahar Sivasubramanian, Ramaiah University of ces

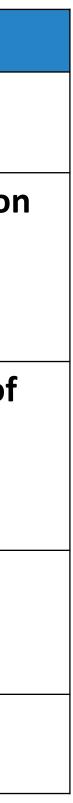
nulation of Dynamic Responses at the Satellite Interface of a Typical Launch g Solid Motor Ignition

ose, Vikram Sarabhai Space Centre

v Phenomena in Supersonic Retropropulsion Jets

hanty, Subrahmanyam Duvvuri, Indian Institute of Science





D1H2S1: Materials, Structures & Manufacturing Track - Hall 2 – 9 AM to 10:40 AM – 6th June

Track Chairs	• Prof. R Gangadharan, IIT Hyderabad • Dr. Dheep
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
09.00 - 09.20 AM	Invited		Invited Talk by
09:20 – 09:40 AM	Paper	24AC-0084 / 2024-26-0414	Aero-Engine Fa Dimensional D Shatrughan Sin
09:40 – 10:00 AM	Paper	24AC-0231 / 2024-26-0415	Multi-Scale Mo Aditya Varma, I
10:00 – 10:20 AM	Paper	24AC-0206 / 2024-26-0416	Generating Red using Ultrasoni Ganesh Kolapp Mahapatra, Inc
10:20 – 10:40 AM	Oral	24AC-0198 / 2024-26-0417	Buckling Knock Numerical Stud Santhosh Rama Gangadharan R



pa Srinivasan, Pratt & Whitney

Title & Authors

Dr Dheepa Srinivasan, Chief Engineer – Pratt & Whitney

astened Structural Components: An Investigation into Impact Induced Three-**Dynamic Fracture Mechanism**

ngh, Debiprosad Roy Mahapatra, Indian Institute of Science

odeling of Selective Laser Melting Process

Kona Veera Ganesh, Debiprosad Roy Mahapatra, Indian Institute of Science

duced-Order Image Data and Detecting Defect Map on Structural Components ic Guided Wave Scan

oan Geetha, Indian Institutes of Technology; Nitin. B Ravi, Debiprosad Roy dian Institutes of Science

kdown Factor Estimation of Stiffened Cylinders under Combined Loads - A ıdy

arathnam, Indian Institutes of Technology; Prakash Chand Jain, DRDO; Raju, Indian Institutes of Technology







D1H2S2: Materials, Structures & Manufacturing Track - Hall 2 – 2 PM to 03:40 PM – 6th June

Track Chairs	• Prof. R Gangadharan, IIT Hyderabad • Dr. Dheep
Host	• << SAE AeroForum>>

Time	Category	ID#	
02.00 - 02.20 PM	Invited		Invited Talk by
02:20 – 02:40 PM	Invited		Invited Talk by I
02:40 – 03:00 PM	Paper	24AC-0157 / 2024-26-0418	Buckling and Po under Axial Co Vineeth Ravula Hyderabad; Vija
03:00 – 03:20 PM	Paper	24AC-0244 / 2024-26-0419	Design and Ma Applications Tony M Shaju, N Research Organ
03:20 – 03:40 PM	Paper	24AC-0222 / 2024-26-0420	Selective Laser Monitoring Tec Benjamin Raju, Institute of Scie



pa Srinivasan, Pratt & Whitney

Title & Authors

Geroge DSA, Airbus India

Prof M Ramji, IIT Hyderabad

Post-Buckling Response of 3D Printed Cylindrical Shell with Circular Cutout ompression

apalli, Gangadharan Raju, Ramji Manoharan, Indian Insitute of Technology, ayabaskar Naryanamurthy, Research Centre Imarat

anufacturing of an Inclinometer Sensing Element for Launch Vehicle

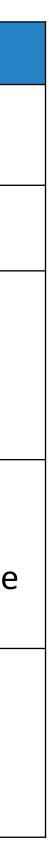
Nirmal Krishna, G Nagamalleswara Rao, T Suresh Kumar, Pradeep K, Indian Space nization

r Melting Based Additive Manufacturing Process Diagnostics Using In-Line chnique and Laser-Material Interaction Model

, Kishore Babu Kancherla, Dakshayini B S, Debiprosad Roy Mahapatra, Indian ence







D1H2S3: Materials, Structures & Manufacturing Track - Hall 2 – 4 PM to 05:40 PM – 6th June

Track Chairs	• Prof. R Gangadharan, IIT Hyderabad • Dr. Dheep
Host	• << SAE AeroForum>>

Time	Category	ID#	
04.00 - 04.20 PM	Invited		Invited Talk by I
04:20 – 04:40 PM	Paper	24AC-0220 / 2024-26-0421	A Methodology Composites Kishore Babu Ka Institute of Scie
04:40 – 05:00 PM	Paper	24AC-0245 / 2024-26-0422	Thermal Analy Ragini Mukherj
05:00 – 05:20 PM	Paper	24AC-0196 / 2024-26-0423	Analytical and Makrand Yarolk
05:20 – 05:40 PM	Oral	24AC-0263	Nonlinear Wav Samanvay Anar



pa Srinivasan, Pratt & Whitney

Title & Authors

Dr Ramesh Kumar, ACD Head, NAL

gy for Accelerated Thermo-Mechanical Fatigue Life Evaluation of Advanced

Kancherla, Dakshayini B S, Benjamin Raju, Debiprosad Roy Mahapatra, Indian ence

sis of Prismatic Core Sandwich Structural Panel for Hypersonic Application rjee; Debiprosad Roy Mahapatra

Experimental Evaluation of Seal Drag Force for Different Fluids Ikar, Milind Telore, Sandip Patil, Eaton India Innovation Center

ves in Multistable Magnetoelastic Lattices ind, Anusree Ray, Vivekanand Dabade, Rajesh Chaunsali, Indian Institute of Scien





D2H2S1: Materials, Structures & Manufacturing Track - Hall 2 – 9 AM to 10:40 AM – 7th June

Track Chairs	 Prof. R Gangadharan, IIT Hyderabad Dr. Dheep
Host	• << SAE AeroForum>>

Time	Category	ID#	
09.00 - 09.20 AM	Invited		Invited Talk by I
09:20 – 09:40 AM	Paper	24AC-0150 / 2024-26-0427	The Effect of Ex Assemblies Use Abhilash Neve,
09:40 – 10:00 AM	Paper	24AC-0109 / 2024-26-0428	Elastomeric Sw Internal Swage Taranjeet Sandl Barsawade, Swa Center
10:00 – 10:20 AM	Oral	24AC-0311	Low-frequency Garigipati Sai Si
10:20 – 10:40 AM			Invited talk by S



pa Srinivasan, Pratt & Whitney

Title & Authors

Prof. K. Padmanabhan, Vellore Institute of Technology, Vellore

Excessive Thermo-Mechanical Stress on the Performance of High-Pressure Hose sed under Flexing Motion

Sandip Patil, Eaton India Innovation Center

waging Finite Element Analysis Methodology to Evaluate Structural Integrity of ed Joints

lhu, Ravi Aher, Eaton India Innovation Center; Ravi Soni, Eaton Corporation; Nikhil vapnil Kamthe, Eaton Aerospace Group; Vijay Sajjan Phalle, Eaton India Innovation

y Vibration Isolation using Bandgap Metamaterials

Srikanth, Murthaza Irfan A V, K Prabith, Rajesh Chaunsali, Indian Institute of Science

Speaker from Boeing







D2H2S2: Materials, Structures & Manufacturing Track - Hall 2 – 2 PM to 03:40 PM – 7th June

Track Chairs	• Prof. R Gangadharan, IIT Hyderabad • Dr. Dheep
Host	• << SAE AeroForum>>

Time	Category	ID#	
02.00 - 02.20 PM	Invited		Invited Talk by
02:20 – 02:40 PM	Paper	24AC-0091 / 2024-26-0430	A Multi-Scale C Alloy Compone Ravi Kumar, Kar
02:40 – 03:00 PM	Paper	24AC-0111 / 2024-26-0431	Effect of Fatigu Vishal Paidimar
03:00 – 03:20 PM	Paper	24AC-0080 / 2024-26-0429	FE Modelling a Alloy Makrand Yarolk
03:20 – 03:40 PM			



pa Srinivasan, Pratt & Whitney

Title & Authors

Prof. V. Raghuprakash, IITM

Computational Scheme for Prediction of High-Cycle Fatigue Damage in Metal ents

aran D S, Debiprosad Roy Mahapatra, Indian Institute of Science

ue Loads on behavior of 2024 Aluminum for Aircraft Hydraulic Applications arri, Krupa Jacob, Uppu Harish, Eaton India Innovation Center; David Hovis

and Experimental Evaluation for the Surface Integrity of Thin-Walled Aluminum

Ikar, Uppu Harish, Sandip Patil, Manasi Patil, Eaton India Innovation Center





n		

D1H3S1: Aerospace Systems Engineering Track - Hall 3 – 9 AM to 10:40 AM – 6th June

Track Chairs	• Mr. Adishesha C S, Collins Aerospace • Dr. V. Suc
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
09.00 - 09.20 AM	Paper	24AC-0228 / 2024-26-0462	Automatic Mar Algorithms Pratik Parihar, U Tk, National Ae
09:20 – 09:40 AM	Paper	24AC-0052 / 2024-26-0463	Synergized Mix Modeling and S G Savithri, T Sau Durga, Usha P V
09:40 – 10:00 AM	Paper	24AC-0019 / 2024-26-0464	A Non-Intrusive Components: A Yogesha Aralak
10:00 – 10:20 AM	Paper	24AC-0024 / 2024-26-0466	CFD Methodolo Actuators Divyanshu Bhar
10:20 – 10:40 AM	Oral	24AC-0172	The Need for S Shahul Nazar, A



dhakar, ADA

Title & Authors

aneuver Detection in Flight Data using Wavelet Transform and Deep Learning

Utsav Kumar, National Institute of Technology; Dushyant Kaliyari, Khadeeja Nusrath erospace Laboratories

xed-Signal System-on-Chip (SoC) Design and Development using System-level Simulation

aritha, M Bindu Bhargavi, BS Teza, Sushma Poreddy, M Madhava Kumar, G Vijaya Verma, DRDO; Kishore Siddani, Vidya Viswanathan, MathWorks, Inc.

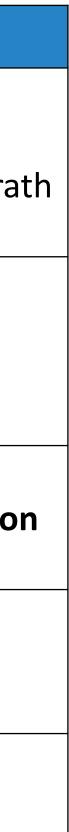
ve Approach for Measuring Data and Control Coupling b/w Software Addressing the Challenges of DO-178C Compliance, Verification and Certification kuppe Ramegowda, Honeywell India Inc.

logy Development to Predict Lubrication Effectiveness in Electromechanical

ardwaj, Anant Kumar, Jubin George, Eaton India Innovation Center

Smarter Testing & Simulation of Airframe Structural Fatigue Airbus India





D1H3S2: Avionics Systems Track - Hall 3 – 2 PM to 03:40 PM – 6th June

Track Chairs	 Prof. Ashwini Ratnoo, IISc Dr. Yogananda Jepp
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
02.00 - 02.20 PM	Invited		Invited Talk by I
02:20 – 02:40 PM	Paper	24AC-0236 / 2024-26-0432	High Frequency Rekhanshi Varn Centre
02:40 – 03:00 PM	Paper	24AC-0116 / 2024-26-0433	BIST Based Me Dominic George Sarabhai Space
03:00 – 03:20 PM	Paper	24AC-0173 / 2024-26-0434	Single Board Co Launch Vehicle Manu C, Eagam Vivekanand V, V
03:20 – 03:40 PM	Paper	24AC-0250 / 2024-26-0435	A CDMA Based (IAWSN) Adishesha C S, Barik, Jadavpur



pu, Honeywell

Title & Authors

Mr Gaurav Dubey, MathWorks

cy Unsteady Pressure Measurement System for Aerodynamic Characterization ma, Vidya SB, Deepak Jogi, Nandakishor MM, Finitha KC, Vikram Sarabhai Space

ethod for SEE Testing of Vikram1601 Processor

ge Joseph, Joji Daniel, Padmakumar K, Jayalekshmy L, Athula Devi, Vikram e Centre

Computer Based Data Acquisition System for Monitoring Parameters of Reusable e Interface System

m Vinay Kumar, Abbireddy Gurusivanjaneya, Indian Space Research Organisation; Vikram Sarabhai Space Centre

d Approach for QoS Improvement in Intra-Aircraft Wireless Sensor Networks

, Prasanna Ramamurthy, Collins Aerospace; Kumardeb Banerjee, Mridul Sankar Ir University





D1H3S3: Aerospace Systems Engineering Track - Hall 3 – 4 PM to 05:40 PM – 6th June

Track Chairs	• Mr. Adishesha C S, Collins Aerospace • Dr. V. Su
Host	• << SAE AeroForum>>

Time	Category	ID#	
04.00 - 04.20 PM	Invited		Invited Talk by I
04:20 – 04:40 PM	Invited		Invited Talk by I
04:40 – 05:00 PM	Paper	24AC-0106 / 2024-26-0467	Comparative A Suitability Asse Carunaiselvane
05:00 – 05:20 PM	Paper	24AC-0059 / 2024-26-0468	Hybrid Cooling Vinayak Nyama Raghavendra G Research; Rajes
05:20 – 05:40 PM	Paper	24AC-0178 / 2024-26-0469	Study of Crew S Nohin K Avirah, Kurian, Vikram



udhakar, ADA

Title & Authors

Dr. N. Munikrishna, CTO, S&I Engineering Solutions Pvt. Ltd.

Mr. Suresh Padmanabhan, Collins Aerospace

Analysis of Axial Flux and Radial Flux Motors for UAV Propulsion: Design and sessment

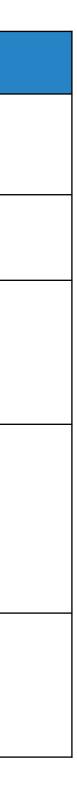
e C, Rajesh Kumar, REUDE Technologies

g System for Thermal Management in Electric Aerial Vehicles agoudar, Namratha P R, Madireddy Balasubrahmanyam, Sridhar Vanka, Gattu, Honeywell Technology Solutions; Ahmed Abuheiba, Honeywell Rocky esh Kumar Jha, Honeywell Technology Solutions

Seat Impact Attenuation System for Indian Manned Space Mission , Dasu Deva Karthik Lakshman, Sai Santhosh Potnuru, Athul P Pramod, Sabin

Sarabhai Space Centre





D2H3S1: Avionics Systems Track - Hall 3 – 9 AM to 10:40 AM – 7th June

Track Chairs	 Prof. Ashwini Ratnoo, IISc Dr. Yogananda Jepp
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
09.00 - 09.20 AM	Invited		Invited Talk by S
09:20 – 09:40 AM	Paper	24AC-0115 / 2024-26-0436	Development o Syam Narayana TiHAN, IITH
09:40 – 10:00 AM	Paper	24AC-0200 / 2024-26-0438	Design and Dev Gayathri Girish,
10:00 – 10:20 AM	Paper	24AC-0253 / 2024-26-0439	Aircraft Weath Applications Prasanna Rama
10:20 – 10:40 AM	Paper	24AC-0046 / 2024-26-0440	Analysis of Pos Dinesh Kushwa



pu, Honeywell

Title & Authors

Speaker from **Moog**

of an Autonomous Blimp (Airship) for Indoor Navigation an S, Yogesh Gangurde, Hitesh Marella, Thivya Rannee, P Rajalakshmi, NMICPS

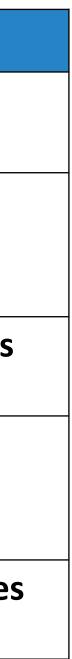
evelopment of Terminal Velocity Measurement System for Descending Modules n, Smitha KS, Rizwana M P, Anand K, Vikram Sarabhai Space Centre

her Data Representation and Threat Management for Connected Weather

amurthy, Balraj Gangadhar, Sathiyaseelan Thulasidass, Collins Aerospace

ssible Flight Operational Cost Savings by Automating Weather Forecast Updates aha, Sebin K Kottackal, Collins Aerospace





D2H3S2: Aerospace Systems Engineering Track - Hall 3 – 2 PM to 03:40 PM – 7th June

Track Chairs	• Mr. Adishesha C S, Collins Aerospace • Dr. V. Su
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
02.00 - 02.20 PM	Invited		Invited talk by I
02:20 – 02:40 PM	Invited		Invited Talk by I
02:40 – 03:00 PM	Paper	24AC-0113 / 2024-26-0470	Stochastic Finit Uniform Cross- Deterministic E Aakash Dhar Dy
03:00 – 03:20 PM	Paper	24AC-0232 / 2024-26-0471	Formal Techniq Stall Warning S Alexander Kale, Singh, National
03:20 – 03:40 PM	Oral	24AC-0252	Numerical Simu Operated Valve Renjith James, J



udhakar, ADA

Title & Authors

Dr Subhrakanti Das, Thales

Dr Yogananda Jeppu, Fellow – Honeywell Aerospace

ite Element Formulation of a Three-Node Quadratic Bar Element with Non-S-Section Based on the Perturbation Method for Simultaneously Non-Elastic Modulus and Applied Load

wivedi, R Marimuthu, Vikram Sarabhai Space Centre

que for Fault Detection and Identification of Control Intensive Application of System Using System Theoretic Process Analysis

e, Ganesh Madhuranath, Viswanathan Shanmugham, Manju Nanda, Giresh I Aerospace Laboratories; Umut Durak, German Aerospace Center (DLR)

nulation and Experimental Verification of Response of a Pneumatically re

Aerospace



D1H4S1: Sustainability & Circularity Track - Hall 4 – 9 AM to 10:40 AM – 6th June

Track Chairs	• Dr. G.N. Dayananda, (Retd.) CSIR/NAL • Prof. Siv
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
09.00 - 09.20 AM	Invited		Invited Talk by I
09:20 – 09:40 AM	Invited		Invited Talk by I
09:40 – 10:00 AM	Paper	24AC-0035 / 2024-26-0402	Sustainable Mi an Aircraft Shreesha Subra Technology Solu
10:00 – 10:20 AM	Paper	24AC-0004 / 2024-26-0403	Energy Consum Amogha Kancha
10:20 – 10:40 AM	Paper	24AC-0134 / 2024-26-0405	Consensus Bas Sreenivasan KG



vakumar Deivendran, IISc

Title & Authors

Dr G N Dayananda; Retired from Council Of Scientific & Industrial Research

K. Shambayya, Deputy Director. LPSC Bangalore, ISRO

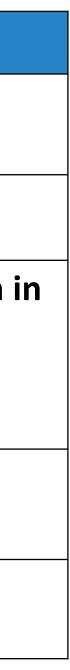
licroalgae-Membrane Photobioreactor System for Onboard Oxygen Production in

ahmanya, Naveen Kumar, Jayant Ranjan, Shivaprasad Kotnadh, Honeywell olutions Lab

mption in Lightweight Electric Aircraft hagar, Collins Aerospace

sed Air Transport System for Strategic Deconfliction for Urban Air Mobility G, SunilRaj Suseelan, Pradeep Huncha, Honeywell Technology Solution Lab





D1H4S2: New Technologies Integration Track - Hall 4 – 2 PM to 03:40 PM – 6th June

Track Chairs	 Prof. Suresh Sundaram, IISc Dr. Savitha Ramas
Host	• < <sae aeroforum="">></sae>

Time	Category	ID#	
02.00 - 02.20 PM	Invited	Invited	Invited Talk by S
02:20 – 02:40 PM	Paper	24AC-0310 / 2024-26-0473	Fault Detection A. Vaishnavi; Ar
02:40 – 03:00 PM	Paper	24AC-0183 / 2024-26-0474	Using Generation Inspection Mod Ujwal Bhate, As
03:00 – 03:20 PM	Paper	24AC-0066 / 2024-26-0478	Deep Learning- Assessment of Ankur Agrawal, Aniruddh Prabh Institute of Tech
03:20 – 03:40 PM			



samy, I2R/A*STAR

Title & Authors

Speaker from Infosys

on in Machine Bearings Using Deep Learning

nju Sharma; VPS Naidu

tive Models to Synthesize Multi-Component Asset Images for Training Defect odels

shish Jha, Vijayasri Kalyan, Rahul Gupta, Ninad Kulkarni, Infosys Limited

-Based Digital Twining Models for Inter System Behavior and Health f Combat Aircraft Systems

l, Aeronautical Development Agency; Fahad Farid, Indian Institute of Technology; hu, Veluri Sudhakar, Aeronautical Development Agency; Nalinaksh Vyas, Indian chnology





D2H4S1: Sustainability & Circularity Track - Hall 4 – 9 AM to 10:40 AM – 7th June

Track Chairs	• Dr. G.N. Dayananda, (Retd.) CSIR/NAL • Prof. Siv
Host	• << SAE AeroForum>>

Time	Category	ID#	
09.00 - 09.20 AM	Invited		Invited Talk by
09:20 – 09:40 AM	Invited		Invited Talk by S
09:40 – 10:00 AM	Paper	24AC-0223 / 2024-26-0407	Assessing the S Sustainability Dakshayini B S, Institute of Scie
10:00 – 10:20 AM	Paper	24AC-0013 / 2024-26-0408	Study of Differ Shri Hari S, Kart
10:20 – 10:40 AM	Paper	24AC-0152 / 2024-26-0410	Ensuring Zero I the Aerospace Achint Shah, M Aircraft Group



ivakumar Deivendran, IISc

Title & Authors

Harish H V; Managing Director, ECube Investment Advisors Pvt Ltd

Speaker from Infosys

Structural Feasibility and Recyclability of Flax/PLA Bio-Composites for Enhanced

5, Kishore Babu Kancherla, Benjamin Raju, Debiprosad Roy Mahapatra, Indian ience

rent Designs of Chevron for Effective Noise Reduction in Jet Engines rthik M C Rao, VIT Bhopal University

Defects Through Effective Design Failure Modes and Effects Analysis Processes in e Industry

Noog India Technology Center Pvt Ltd.; Rachelle Shea, Bruce Siskowski, Moog





D2H4S2: New Technologies Integration Track - Hall 4 – 2 PM to 03:40 PM – 7th June

Track Chairs	 Prof. Suresh Sundaram, IISc Dr. Savitha Ramas
Host	• << SAE AeroForum>>

Time	Category	ID#	
02.00 - 02.20 PM			Invited Talk by S
02:20 – 02:40 PM	Paper	24AC-0251 / 2024-26-0480	Inverse Approa Applications Us Anjana P K, Col Sutrakar, ADE, I
02:40 – 03:00 PM	Paper	24AC-0283 / 2024-26-0483	Aerospace Veh Sandeep Prasad
03:00 – 03:20 PM	Paper	24AC-0141 / 2024-26-0484	Velocity Estima Learning Jayanth Balaji A
03:20 – 03:40 PM	Oral	24AC-0076	ML based Pred Prachi Khullar, S



samy, I2R/A*STAR

Title & Authors

Speaker from **Boeing**

- ach for Metasurface Based Radar Absorbing Structure Design for Aerospace Jsing Machine Learning Techniques
- ollege of Engineering Trivandrum; Abhilash P V, Siddharth Bisariya, Vijay Kumar DRDO
- hicle Motion Simulation with Real-Time Telemetry Data
- d Shaw, Adarsh Thakur, Thara Nair, Raveendra KK, Vikram Sarabhai Space Centre
- ation of a Descending Spacecraft in Atmosphereless Environment Using Deep
- Avanashilingam, Satish Thokala, MathWorks, In
- dictive model for Mechanical Behavior of Cellular Structured Super alloys Srijith Pillai, Honeywell





Thank You



