

AEROMEET 2022

MARCH 21-22, 2022

Final Program



ALBEDO MEETINGS

Floor# 3, Advant Building, 99B, Kakatiya
Hills, Kavuri Hills, Madhapur Hyderabad,
TS 500033

Email: contact@albedomeetings.com

Day 1 - March 21, 2022

09:00AM	Introduction	
TIMEZONE: London, UK (GMT)		
09:00-09:30	Title: Immersed Boundary Method Modelling of Fluid-Structure-Acoustics Interaction of Flapping Wings	K
	Fangbao Tian , University of New South Wales, Australia	
09:30-10:10	Title: Morphing Via Shape Memory Materials and Technology	P
	Wei Min Huang , Nanyang Technological University, Singapore	
10:10-10:35	Title: Studies on Pyroshock Prediction and Isolation in Aerospace Engineering	I
	Zhaoye QIN , Tsinghua University, China	
10:35-11:00	Title: Drag, Vibration and Noise Reduction of the Bluff Body based on Polymer Additives	I
	Yongliang Xiong , Huazhong University of Science and Technology, China	
11:00-11:25	Title: To be Confirmed	I
	Yiwei Dong , School of Aerospace Engineering, Xiamen University, China	
11:25-12:05	Title: Intelligent path planning of UAV	P
	Yaoming Zhou , Beihang University, China	
12:05-12:35	Title: Special Inventions for Conducting Laboratory Experiments on Hypersonics and Shock and Blast Waves in Undergraduate and Graduate level Courses	K
	Reddy K P Jagannath , Indian Institute of Science, India	
12:35-13:15	Title: Industrial Digitalization Applications in World-Class Aerospace Companies	P
	Essam Shehab , Head of Mechanical and Aerospace Engineering, Nazarbayev University, Kazakhstan	
13:15-13:40	Title: Free-flying and Free-floating space Robots: Dynamics and Control Challenges	I
	Ramin Masoudi , American University in Dubai, UAE	
13:40-14:05	Title: Multi-Fidelity, Multi-Scale Simulation to support Digital Twins	I
	James Tyacke , Brunel University London, UK	
14:05-14:35	Title: Inverse Optimisation of Vibratory Behaviour of Space Craft Structures	K
	Hamid Bahai , Brunel University London, UK	
14:35-15:00	Title: Microchannels and Nanochannels Gas Flow for the Entire Knudsen Number Domain	I
	Snežana S. Milićev , University of Belgrade, Serbia	

15:00-15:25	Title: To be Confirmed	I
	Vladimir Jazarević , Founder of Mechatronics Unmanned System & Technology Solutions, Serbia	
15:25-15:50	Title: Efforts at EUMETSAT to Comply with Current Long-Term Space Sustainability Guidelines	I
	Pier Luigi Righetti , EUMETSAT, Germany	
15:50-16:15	Title: High Enthalpy Flow Diagnostics for Planetary Entry Missions and Re-entry Break-up Analysis	I
	Stefan Löhle , University of Stuttgart, Germany	
16:15-16:40	Title: Optimal Stress Fields, Worst-Case Loadings, and Load Capacity of Structures	I
	Reuven Segev , Ben-Gurion University of the Negev, Israel	
16:40-17:10	Title: Solid Fuel Ramjets and Scramjets for High-Speed Energy-Efficient Propulsion	K
	Alon Gany , Technion – Israel Institute of Technology, Israel	
17:10-17:35	Title: Digital Design and Manufacturing in the Aerospace Industry	P
	Fernando Mas , CTO of M&M Group, Spain	
Day 2 - March 22, 2022		
09:00AM	Introduction	
TIMEZONE: Chicago, USA (GMT-6)		
09:00-09:25	Title: Using the Jet Stream for Sustainable Airship and Balloon Transportation of Cargo and Hydrogen	I
	Julian Hunt , International Institute for Applied Systems Analysis (IIASA), Austria	
09:25-09:50	Title: Simulation-Driven Design in the Aerospace Industry	I
	GONZALEZ-MARTINO Ignacio , Dassault Systèmes, France	
09:50-10:15	Title: Supporting Ground Infrastructure Constraints and Operation Optimization for New Air Transportation Paradigms	I
	Cedric Justin , Daniel Guggenheim School of Aerospace Engineering, Georgia	
10:15-10:55	Title: Vibration-based Structural Damage Detection	P
	Weidong Zhu , University of Maryland, USA	
10:55-11:20	Title: Power Transmission through Gears: Rising Issues and Technical Solutions	I
	Carlo Rosso , Polytechnic University of Turin, USA	
11:20-11:45	Title: Dynamic Probabilistic Risk Assessment of Unmanned Aircraft Control Systems	I
	Tunc Aldemir , The Ohio State University, USA	
11:45-12:10	Title: Discovering New Multimodal Analysis Methods to Predict Human Behavior	I
	Ziho Kang , University of Oklahoma, USA	

12:10-12:35	Title: Technological & Engineering Education and the Development of the Brazilian Aeronautical Industry	
	Antonio Henriques de Araujo Junior , State University of Rio de Janeiro, Brazil	
12:35-13:00	Title: Continuum Deformation Approaches to Large Scale Unmanned Vehicle Coordination and Traffic	
	Hossein Rastgoftar , University of Arizona, USA	
13:00-13:25	Title: Computational Methods and Ground-Based Experiments for Space Operations	
	Ahmad Bani Younes , San Diego State University, USA	

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INTERNATIONAL MEET ON MECHANICAL AND
AERONAUTICAL ENGINEERING

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