

Aeronautics and Astronautics Symposium of 2022 Silk Road International Conference on the Cooperation and Integration of Industry, Education, Research and Application

November 9, 2022, Xi'an China

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Organized by Northwestern Polytechnical University (Belt and Road Aerospace Innovation Alliance)

Co-organized by The Chinese Society of Aeronautical Education

Opening Session					
Zhenghe Hotel, NPU Youyi Campus					
Meeting Platform: Webex; Meeting Number: 2517 949 8716; Meeting Code: 20221109					
Time	Content	Speaker/Reporter	Organization	Online/Onsite	Host
14:00-14:10	NPU Introduction Video				Prof. ZHANG Fuli, Director of Office of International Cooperation and Dean of International College, NPU
14:10-14:15	Welcome Address	Leader	Northwestern Polytechnical University	Onsite	
14:15-14:20	Welcome Address	Leader	Education Department of Shaanxi Provincial Government	Online	
14:20-14:50	Keynote Report: Business Opportunities and Screening criteria in Space Tourism	Jengshing Chern	Member of International Academy of Astronautics	Online	
14:50-15:00	Appointment of International Joint Supervisors				
15:00-15:20	Group Photo				

Parallel Session 1: Aerospace Science Today: From Fundamental Research To Engineering Application Zhenghe Hotel, NPU Youyi Campus Meeting Platform: Webex; Meeting Number: 2517 949 8716; Meeting Code: 20221109					
Time	Report	Reporter	Organization	Online/Onsite	Host
15:20-15:40	Destination Space: A Brief Introduction of School of Astronautics at NPU	LI Yang	Professor, NPU School of Astronautics	Onsite	Associate Professor NIE Hongqi, NPU School of Astronautics
15:40-16:00	Aerospace Propulsion: Employing Detailed Chemical Kinetics	Henry Curran	Academician, Royal Irish Academy	Online	
16:00-16:20	Progress of Liquid Rocket Propulsion in the New Era	DU Feiping	Deputy Director, Science and technology department, 11 th branch of the Sixth Institute of Aerospace Science and Technology	Online	
16:20-16:40	Causation & Control of Flow-Induced LCOs: Contemporary Aerospace Designs	Adnan Maqsood	Professor, National University of Science and Technology of Pakistan	Online	
16:40-17:00	Technological Development of Solid Combined Propulsion	YANG Yuxin	Deputy Director, Xi'an Institute of Aerospace Power Technology	Online	
17:00-17:20	TBD	Daniele Botto	Professor, Politecnico di Torino, Italy	Online	

Parallel Session 2: Recent Advances in Fluid-Structure Interaction and Aircraft

Zhenghe Hotel, NPU Youyi Campus

Meeting Platform: Zoom; Meeting Number: 926 7243 2206

Time	Report	Reporter	Organization	Online/Onsite	Host
15:20-15:40	TBD	Vladimir D. Bogatyrev	Rector, Samara University, Russia	Online	Associate Professor LI Yongbo, NPU School of Aeronautics
15:40-16:00	Development Status and Challenges of New Energy Electric Propulsion-based Aircrafts	ZHANG Weiwei	Deputy Dean, NPU School of Aeronautics	Onsite	
16:00-16:20	An overview of flight test techniques on C919 aircraft	DING Junliang	Deputy Chief Engineer, China Flight Test Establishment	Online	
16:20-16:40	Advances in highly efficient safety protection technologies for aircraft icing	HUANG Xiaobin	Professor, Shanghai Jiao Tong University	Online	
16:40-17:00	Numerical simulation and flight verification of degree of freedom flutter characteristics of flying wing	LV Binbin	Associate Scientist, China Aerodynamics Research and Development Center	Online	
17:00-17:20	Future challenges of flow induced vibration energy harvesting	Daniil Yurchenko	Associate Professor, University of Southampton, UK	Online	

Parallel Session 3: Aerospace Power Zhenghe Hotel, NPU Youyi Campus Meeting Platform: Tencent; Meeting Number: 444 597 421					
Time	Report	Reporter	Organization	Online/Onsite	Host
15:20-15:40	Efficient analysis of unsteady flows within a multi-stage turbomachine: from the time spectral method to the coupled time and passage spectral method	WANG Dingxi	Professor and Head of Department of Aeronautical Fluid Machinery, NPU School of Power and Energy	Onsite	Professor WANG Zhiwu, Deputy Dean of NPU School of Energy and Power
15:40-16:00	Effect of Channel Width on Fuel-Oxygen Mixing in an Unwrapped Rotating Detonation Engine	Gabriele Ciccarelli	Professor of Queen's University, Canada	Online	
16:00-16:20	Transpiration cooling	Akira Nakayama	Professor of Shizuoka University, Japan	Online	
16:20-16:40	Flight Experiment of Detonation Engine System by Using Sounding Rocket S-520-31 and Future Flight Experiment	Jiro Kasahara	Professor of Nagoya University, Japan	Online	
16:40-17:00	Fast, accurate and robust flutter analysis	Paul Petrie-Repar	Director and Co-founder of RPM Turbo, Australia	Online	
17:00-17:20	Experiments and simulations of premixed flame instability in a Hele-Shaw cell	Yakush Sergey Evgenievich	Director of Institute for Problems in Mechanics of the Russian Academy of Sciences	Online	