

V-MechAero2024

4th Edition of

Mechanical and Aerospace Engineering

Virtual

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Webinar
Timings

Speakers
Timings

07:00 – 07:10

Introduction

07:10 – 07:50

15:10 – 15:50 P

Title: Understanding the Physics by Digital Models in Manufacturing

Yiming Rong, University of Hong Kong, Hong Kong.

07:50 – 08:30

08:50 – 09:30 P

Title: Modelling micro flapping wings aerial vehicles

Ali Abolfathi, University College London, UK.

08:30 – 09:05

17:30 – 18:05 K

Title: Machining of Straight Bevel gears for Aircraft Engine Using 5-Axis Machining Center

Kazumasa Kawasaki, Sanjo City University, Japan.

09:05 – 09:40

10:05 – 10:40 K

Title: Innovative Design, Modelling and Applications of Compliant Mechanisms and Robotics

Guangbo Hao, University Colleg Cork, Ireland.

09:40 – 10:15

11:40 – 12:15 K

Title: Development of MoS₂-based coating as dry lubricant in space application – sustaining lubrication in both air and vacuum

Guillaume Colas, CNRS – Institut FEMTO-ST, France.

10:15 – 10:50

18:15 – 18:50 K

Title: Characterization of Solder Joints Formed by Laser Soldering with Powder Metallurgy-Derived Alloys

Siti Rabiattull Aisha Binti Idris, Universiti Malaysia Pahang, Malaysia.

10:50 – 11:25

13:50 – 14:25 K

Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator

Seongwoo Woo, Ethiopian Technical Uniersity, Ethiopia.

11:25 – 11:45 14:25 – 14:45 I
Title: About plane problem of non-stationary interaction of hard body in many layer bases and bases with welded joint in elastic-plastic formulation
Vladislav Bogdanov, National Transport University, Kyiv, Ukraine

11:45 – 12:05 14:45 – 15:05 I
Title: Investigation of nonlinear gas oscillations and aerosol deposition in closed resonators of different geometry
Linar Radikovich Shaidullin, Institute of Mechanics and Engineering, FRC Kazan Scientific Center, Russian Academy of Sciences, Russia

12:05 – 12:25 21:05 – 21:25 I
Title: Introduction to the piecewise-integrated composite bumper beam
Seong S Cheon, Kongju National University, Republic of Korea

12:25 – 12:45 06:25 – 06:45 I
Title: Experimental Stress Analysis
Mario Acosta-Flores, Autonomous University of the State of Morelos, Mexico

12:45 – 13:20 13:45 – 14:20 I
Title: Reverse engineering of algebraic Inequalities: a powerful method for extracting new knowledge and optimising systems and processes in engineering
Michael T Todinov, Oxford Brookes University, UK

13:20 – 14:00 09:20 – 10:00 P
Title: A Simple 3D Model for an Isotropic Material with Different Moduli in Tension and Compression
Liu Jane, Tennessee Tech University, USA

14:00 – 14:40 10:00 – 10:40 P
Title: Critical Slowing Down and Significant Delay Phenomena in Viscoelastic ‘Snap- through’ Instabilities
Liu Jane, Tennessee Tech University, USA

Closing Ceremony