



Final Program



2nd Edition of Mechanical and Aerospace Engineering Virtual

November 10, 2023

V-MECH2023

A background image of a technical drawing or blueprint, showing various mechanical parts and components in a wireframe style, overlaid on a blue gradient background.

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Webinar
TimingsSpeakers
Timings

07:00 – 07:10

Introduction

07:10 – 07:50

16:10 – 16:50

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Title: Functional nanomaterials for biomedical devices: The intermediate water concept

Masaru Tanaka, Institute for Materials Chemistry and Engineering, Kyushu University, Fukuoka, Japan.

07:50 – 08:30

13:20 – 14:00

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Title: Engineering at the Nanoscale: A Strategy for Developing High Performance Functional Materials from Biopolymers

Sabu Thomas, Mahatma Gandhi University, India.

08:30 – 09:10

14:00 – 14:40

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Title: Engineered Heterojunctions for Scalable Hydrogen Production

Tokeer Ahmad, Jamia Millia Islamia, India.

09:10 – 09:45

18:10 – 18:45

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Title: Novel SOFC Power System for Drone Operation

Yongjin Yoon, Korea Advanced Institute of Science and Technology, South Korea.

09:45 – 10:20

10:45 – 11:20

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Title: Twin Transition towards Smart and Sustainable Manufacturing

Erwin Rauch, Free University of Bolzano, Italy.

10:20 – 10:55

13:20 – 13:55

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

Seongwoo Woo, Ethiopian Technical University, Ethiopian.

10:55 – 11:30

10:55 – 11:30

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Title: Thermal Management in Composite Porous-Fluid Systems with Metal Foam: Insights into Turbulent Flow and Heat Transfer

Yasser Mahmoudi Larimi, The University of Manchester, United Kingdom.

11:30 – 12:05

14:30 – 15:05

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Title: Enhancing Solar Water Desalination Efficiency through Tubular Solar Still Trough Configuration Optimization

Mohamed Bechir Ben Hamida, Imam Mohammad Ibn Saud Islamic University, Saudi Arabia.

12:05 – 12:15

E-Poster Presentation

Title: Robust Position Control Scheme for a Flexible Arm Manipulator with Uncertain Dynamics Using Modified Discrete Sliding Mode Model Following Controller Approach

Phongsak Phakamach, Rajamangala University of Technology Rattanakosin, Thailand

Closing Ceremony