

Virtual Programme

November 20, 2023 (GMT)

Keynote Presentations

09.00 - 09.30

V. ANILKUMAR, Vikram Sarabhai Space Centre, Indian Space Research Organization, India

Title: Metal Additive Manufacturing for Indian Space Programme

Oral Presentations

09.30 - 09.55

Tayyaba Bari, COMSATS Institute of Information Technology, Pakistan

Title: Revolutionizing Regeneration: Crafting Organs through 3D Printed Bioscaffolds from Decellularized Umbilical Cord

09.55 - 10.20

Shifan Khanday, Dubai Medical College for Girls, UAE

Title: Exploring the Synergy between 3D Printing Technology and Embryological Research

10.20 - 10.45

Hamed Niroumand, Buein Zahra Technical University (IK-IU-BZ), Iran

Title: Earth Materials and 3D Printing Technologies: A Technical Paper on a Sustainable 3D Printed Green House

10.45 - 11.10

Hamed Niroumand, Buein Zahra Technical University (IK-IU-BZ), Iran

Title: A New Idea and Method for 3D Printing Construction of Concrete Walls

11.10 - 11.35

Raymond Uzoh, The Federal Polytechnic, Mubi, Nigeria

Title: Graphene: The Wonder Material of the 21st Century, Applications, Prospects and Challenges

11.35 - 12.00

Nafiseh Baheiraei, Tarbiat Modares University, Iran

Title: Graphene- based Materials for Cardiac Tissue Engineering

12.00 - 12.25

Momen Qasaimeh, The Hashemite University, Jordan

Title: In-Situ Nozzle-Integrated Compression Rolling Impact on the Mechanical Properties and Fracture Characteristics of 3D Printed Parts Created Using Fused Filament Fabrication (FFF)

12.25 - 12.50

M. A. Fazal, Dept of Mechanical and Materials Engineering,
University of Jeddah, Saudi Arabia

Title: Graphene-based Materials for Energy Engineering and Opto-electronic Applications

Lunch - 12.50 - 13.35

13.35 - 14.55

Vijeth H, Nagaland Central University, India

Title: Fabrication of Flexible Supercapacitor using MoS₂ Decorated Polypyrrole Nanotube Composites

14.55 - 15.20

Amarachukwu Obi, University Of Nigeria, Nigeria

Title: A 3-D Printed Support for the Vertical Axis Wind Turbine Blade

15.20 - 15.45

Amna Mazen, University of Detroit Mercy, USA

Title: Factors Affecting Ultimate Tensile Strength and Impact Toughness of 3D Printed Parts Using Fractional Factorial Design

Day 1 Concludes

Day 2, November 21, 2023 (GMT)

Oral Presentations

09.00 - 09.25

Kazutaka Shirai, Hokkaido University, Japan

Title: Finite Element Analyses on Deformation Behavior of Fresh 3D Printing Mortar

09.25 - 09.50

Muhammad Irfan Hussain, University Of Science And Technology Beijing, China

Title: DLP 3D Printed Oxide Ceramics and Alumina-reinforced Zirconia (ARZ) Composites: Optimization of Slurry and Sintering Strategies

09.50 - 10.15

Hamed Niroumand, Buein Zahra Technical University (IK-IU-BZ), Iran

Title: 3D Printing of Concrete Houses: Techniques, Materials, and Challenges

10.15 - 10.40

Hamed Niroumand, Buein Zahra Technical University (IK-IU-BZ), Iran

Title: 3D Printing of Earth Houses: Techniques, Materials, and Challenges

10.40 - 11.05

Assas Yasmine Fatima Zohra, USTHB and Univ Oran 1, Algeria

Title: New Insights in the use of Boron Nitrogen and Carbon Nanotubes as Cisplatin Nanovector

11.05 - 11.30

Ibrahim Maouhoubi, Sidi Mohamed Ben Abdellah University, Morocco

Title: Investigations of the Optoelectronic Properties of Semiconductors under External Effects: Application for Photonic Devices

11.30 - 11.55

Sangeeta Tiwari, Amity Institute of Applied Sciences, Amity University Noida, India

Title: 2D Nanofibrous Mats of PAN/Zr for Removal of Hg (II) in Ultra Low Concentrations

11.55 - 12.20

Seongwoo Woo, Ethiopian Technical University, Ethiopia

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

12.20 - 12.45

Ghazaleh Kholafazadehastamal, Ankara University, Turkey

Title: Maximizing Detection Sensitivity of Levofloxacin and Tryptophan in Dairy Products: A Carbon-based Electrochemical Sensor Incorporating Ti_3AlC_2 MAX Phase and Activated Nanodiamonds

12.45 - 13.10

Abderrazek El-kordy, University of Moulay Ismail, Morocco

Title: An Electrochemical Insight into the Charge Transfer and Accumulation of Heavy Metals at the Surface of Clay-zeolite Composite Membranes During the Filtration of Heavy metals using Clay/Zeolite Modified Graphite Paste Electrode

Video Presentations

VP - 01

Narayanan Gokarneshan, SSM College of Engineering, India

Title: Role of Graphene in the Textile Industry

VP - 02

Zahoor ul Hussain Awan, NED University of Engineering and Technology, Pakistan

Title: Design and Development of Ti_3C_2Tx Mxenes as Cathode Materials for Energy Storage Devices