#### **Indian Institute of Technology Tirupati**



February 1-2, 2021



### International Webinar

# Advances in Materials Processing and Mechanical Testing



Department of Mechanical Engineering
IIT Tirupati

## **Program Schedule**

#### DAY 1: 1st February 2021

Time (Indian)	Program	Duration
1.00 PM	Welcome Address Dr. Ajay Kumar Webinar Coordinator, IIT Tirupati	15 min
1:15 PM	Opening Remarks Dr. Madan Mohan A. HOD Mechanical Engineering, IIT Tirupati	15 min
1:30 PM	Inaugural Address Prof. K.N. Satyanarayana Director, IIT Tirupati	30 min
2.00 PM	Prof. Pedro Vilaca, Aalto University, Finland Title: Friction-based Welding and Processing: Fundaments and Innovations	60 min
3.00 PM	Prof. Gaurav Mohanty, Tampere University, Finland Title: In-situ Mechanical Testing at Small Length Scales	60 min
4:00 -4:45 PM	BREAK	
5.00 PM	Prof. TW (Bill) Clyne, Cambridge University UK & Dr. Jimmy Campbell, Plastometrex, Cambridge UK Title: Obtaining Metal Plasticity and Failure Characteristics via Iterative FEM Modeling of Indentation – The PIP Methodology	60 min
6:00 PM	Prof. Surya Kalidindi, Georgia Institute of Technology, Georgia, USA Title: AI-Based Knowledge Systems for Accelerated Materials Innovation	60 min

	DAY 2: 2 <sup>nd</sup> February 2021	
10.00 AM	Prof. Satish T. S. Bukkapatnam, and Bhaskar Botcha, Texas A&M University, College Station, TX, USA Title: AI-driven Characterization and Process Monitoring for Material-on-demand Smart Manufacturing	60 min
11.00 AM	Prof. Pradeep Menezes, University of Reno, Nevada, USA  Title: Tribology in Advanced Manufacturing	60 min
12:00 Noon	Prof. David Field, Washington State University, USA Title: Microstructural Evolution during Deformation of Polycrystals with Gradient Microstructures	60 min
6.00 PM	Prof. Nikhil Gupta, New York University Tandon School of Engineering, USA Title: Reduction in the Materials Characterization Effort: A Transform to Extract Elastic Properties from Viscoelastic Measurements	60 min
7.00 PM	Concluding Remarks Dr. N. Venkaiah, IIT Tirupati Dr. M. Ravi Sankar, IIT Tirupati	
	Vote of Thanks Dr. D.V. Kiran, IIT Tirupati	

