

Wednesday, November 20th, 2024				
International Symposium on Transformational Technologies in Materials & Manufacturing				
Main Auditorium				
Venue			Main Auditorium	
1st Session				
Sr.No.	Time Slot	Moderator	Dr. Dheepa Srinivasan, MS Ramaiah University of Applied Science	
		Session chair	Dr. Kamachi Mudali, Homi Bhabha National Institute	
1	12:45-13:15	Dr. Carsten Blawert	HOD, Department of Functional Surfaces, Helmholtz-Zentrum Hereon GmbH	Smart corrosion protection concepts for plasma electrolytic oxidation (PEO) layers on light metals: Approaches and Challenges
2	13:15-13:45	Dr. Narendra B. Dahotre	Associate Vice President, Center for Agile & Adaptive Additive Manufacturing (CAAAM)	Laser Based Additive Manufacturing: Next Generation Materials Manipulation Technology
Lunch (13:45 - 14:30)				
2nd Session				
		Moderator	Dr. Dheepa Srinivasan, MS Ramaiah University of Applied Science	
		Session chair	Prof. Dipankar Banerjee, IISc Bangalore	
3	14:30-15:00	Dr. Suraj Rangarajan	MD & CTO, Applied Materials India	Materials Engineering: Atomic Level Materials Engineering Innovations at Industrial scale
4	15:00-15:30	Dr. Srinath Chakravarthy	Factorial Energy, Boston, USA	Role of mechanics and metallurgy in All Solid State Li-metal batteries: Challenges and opportunities
5	15:30-16:00	Dr. Geetha Manivasagam	Director, Biomaterials, Cellular and Molecular Theranostics (CBCMT), VIT, Vellore	From Concept to Care: The Transformative Power of Additive Manufacturing in the Medical Device Industry
Tea (16:00-16:15)				
3rd Session				
		Moderator	Dr. Dheepa Srinivasan, MS Ramaiah University of Applied Science	
		Session Chair	Prof. Vikram Jayaram, IISc Bangalore	
6	16:15-16:45	Prof. Palani Balaya	National University, Singapore	Developing Safe and Inexpensive High-power Li-ion Batteries using Mesoporous LiMnFePO ₄ and TiO ₂
7	16:45-17:15	Prof. Chris Pistorious	Associate Department Head and POSCO Professor, Carnegie Mellon University, USA	Indices for partial replacement of coke with other fuels in blast furnace ironmaking
8	17:15-17:45	Prof. Srikant Joshi	Professor, University West, Sweden	Axial Plasma Spraying: Offering New Prospects for Realizing Diverse Functional Coatings