

Technical Program

Indo- Japan Joint Meeting “The Science and Technology of Light Metals with emphasis on Titanium Alloys” 18th – 21st March 2024

Venue: KP Abraham Auditorium, Dept. of Materials Engineering, IISc Bangalore

18 th March 2024		19 th March 2024		20 th March 2024	21 st March 2024	
09.30 - 10.00	Introduction Prof. Satyam Suwas & Prof. Y. Kawamura				ONE DAY TRIP to MYSORE 7:30 am Start from Hotel Sheraton	
10.00-10.40	Exploration of Titanium Alloy Physical Metallurgy and Mechanical Behaviour Prof. D. Banerjee	10.00-10.40	The study of microtextured regions and room temperature creep through high throughput cantilever bending experiments in titanium alloys Prof. Vikram Jayaram			10.00-11.00 Summing up the workshop Speakers: Prof. Satyam Suwas Prof. Y. Kawamura Prof. K. Chattopadhyay Prof. A. Vinogradov
10.40-10.55	Tea Break	10.40-10.55	10.40-11.20 Crystal plasticity analysis for non-uniform deformation behavior of dual phase Ti alloys Prof. Tsuyoshi Mayama			11.00-12.00 Separate Discussion for Collaborative research work
10.55-11.35	In situ structural analyses of Ti during severe plastic deformation under high pressures Prof. Zenji Horita	11.20-11.35	Tea Break			12.00-01.00 IISc Facility visit AFMM & CENSE
11.35-12.15	Texture in Titanium alloys (TBA) Prof. Satyam Suwas	11.35-12.15	Titanium Alloys for Orthopedic Applications Prof. Kaushik Chatterjee			01.00 Lunch & Depart
12.15-12.55	Microstructure design of Ti alloys using slow cooling treatment Prof. Takahisa Shiraishi	12.15-12.55	A mini-review of fatigue of ultrafine grained Titanium its alloys for bio-medical applications: achievements, challenges and perspectives Prof. Alexey Vinogradov			
12.55-02.00	Lunch	12.55-02.00	Lunch			

02.00-02.40	Microstructural Evolution and Creep behavior of Additively Manufactured near α Ti6242 Titanium alloy Prof. Praveen Kumar	02.00-02.40	Kink Strengthening of Mille-Feuille-Structured Alloys Prof. Yoshihito Kawamura		
02.40-3.20	Alloy development, microstructural and mechanical properties of TiAl and Mg-Ce based alloys Dr. Sureandra Kumar Makineni	02.40-3.20	Improving mechanical properties and corrosion resistance of Mg alloys Prof. Subodh Kumar		
03.20- 4.00	Observations of slip lines in pure titanium sheets Prof. H.Kitahara	3.20-3.35	Tea break		
4.00-5.00	Tea Break & Dept. Facility visit	3.35-4.15	Towards reducing tension-compression yield and cyclic asymmetry in pure magnesium and magnesium-aluminum alloy with cerium addition Dr. Ankur Chauhan		
		4.15-4.55	Study on Al_8Mn_5 nanoprecipitation and C15 laves phases in heat treated Mg-Al-Ca-Mn alloy system Prof. K.Chattopadhyay		
7 PM	Dinner		Dinner		