

## THE INDIAN INSTITUTE OF METALS NMD ATM 2014



Redefining the Horizons of Metallurgy/Materials Focus on Automotive, Aerospace, Defense and Energy 52<sup>nd</sup> National Metallurgists Day & 68<sup>th</sup> Annual Technical Meeting

NMD ATM 2014, 12-15 November 2014

IIM-TMS IC	IIM-TMS ICME Symposium: Session 1, KEY ISSUES IN TRANSITIONING ICME TO INDUSTRY			
	Timing: 12 <sup>th</sup> November, 13:30-15:30 hrs			
	Session Conveners: BP Gautham, Farrokh Mistree			
	Session Chair: Farrokh Mistree			
Type of Presentation	Start time	Author name and Affiliation	Title of Presentation	
<b>Opening Remarks</b>	13:30-13:40	Farrokh Mistree & B P Gautham	Opening Remarks	
Invited talk	13:40-14:05	Peter Collins	ICME Interfaces in Practice - Structural, Functional, or Both	
	14:05-14:30	Deepankar Banerjee	Challenges in Integrated Computational Science and Engineering of Titanium Alloys	
	14:30-14:55	Amarendra Singh	The Role of Model Integration in Industrial Realization of ICME	
Discussion	14:55-15:30			

IIM-TMS ICME Sym	posium: Session	2, INDUSTRIAL PERSPECTIVES IN Timing: 12 <sup>th</sup> November, 16:00-18:00	TRANSITIONING ICME TO INDUSTRY hrs	
	Ses	sion Conveners: BP Gautham, Farrokh		
	Session Chair: BP Gautham			
Type of Presentation	Start time	Author name and Affiliation	Title of Presentation	
Invited talk	16:00-16:25	G Balachandran	Using Mathematical Models for Industrial Scale Steel Processing	
	16:25-16:50	Satyam Sahay	Industrial Perspectives on Near-term Applications of ICME Framework	
	16:50-17:15	R Ramakrishnan	Modified Embedded Atom Method Potential for Ni-Al-Cr-Ta System	
	17:15-17:25	Rishabh Shukla	An Inductive Method for the Exploration of the Solution Space of Ladle, Tundish and Caster (0027)	
DISCUSSION	17:25-18:00			

		iming: 13 <sup>th</sup> November, 09:00-11:00 h	
	Session	Conveners: BP Gautham, Farrokh	Mistree
Session Chair: G. Phanikumar			
Type of Presentation	Start time	Author name and Affiliation	Title of Presentation
Invited talk	09:00-09:25	TA Abhinandanan	Phase Field Modeling of Microstructural Instabilities
	09:25-09:50	Abhik Choudhury	The Role of Phase-Field Models in ICME
	09:50-10:15	Yunzhi Wang	Development of Mechanism-Based and Microstructure-Sensitive ICME Modeling Tools
Discussion	10:15-11:00		



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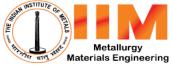


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IIN	IIM-TMS ICME Symposium: Session 4, PLATFORMS AND INFRASTRUCTURE			
	Timing: 13 <sup>th</sup> November, 13:30-15:30 hrs			
	Session Conveners: BP Gautham, Farrokh Mistree			
	Session Chair: Richard LeSar			
Type of Presentation	Start time	Author name and Affiliation	Title of Presentation	
Invited talk	13:30-13:55	Alejandro Strachan	ICME in the Cloud: Online Simulations for Research and Education via nanoHUB	
	13:55-14:20	Ake Jansson	Towards Plug&Play in ICME – The Need for Standards and Interface Specifications	
	14:20-14:45	Sreedhar Reddy	A Model Driven Computational Platform for Integrated Design of Materials and Products	
DISCUSSION	14:45-15:30			

IIM-TMS ICME Symposium: Session 5, STANDARDS AND WORKFLOWS Timing: 13 <sup>th</sup> November, 15:30-17:30 hrs				
		n Conveners: BP Gautham, Farrokh		
	Session Chair: Alejandro Strachan			
Type of Presentation         Start time         Author name and Affiliation         Title of Presentation				
Invited talk	15:30-15:55	Richard Lesar	Increasing Accessibility: Automated Workflows and ICME	
	15:55-16:20	Jitesh Panchal	ICME platforms for Design Collaboration – Thinking beyond Software Integration	
	16:20-16:45	G Phanikumar	Integrating the ICME toolset in the emerging landscape of computing infrastructure	
DISCUSSION	16:45-17:30			



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1		ymposium: Session 6, DESIGN ANI iming: 14 <sup>th</sup> November, 08:30-10:30		
	Session Conveners: BP Gautham, Farrokh Mistree			
		Session Chair: Peter Collins		
Type of Presentation	Start time	Author name and Affiliation	Title of Presentation	
Invited talk	08:30-08:55	Farrokh Mistree	ICME for the Integrated Realization of Engineered Materials, Components and Associated Manufacturing Processes (ICME- IREMCAMP)	
	08:55-09:20	Janet Allen	Integrated Realization of Engineered Materials, Components and Associated Manufacturing Processes (ICME- IREMCAMP)	
	09:20-09:45	BP Gautham	Data Sciences Applications for Industrialization of ICME	
	09:45-09:55	Sapan Shah	Context Aware Information Retrieval from Materials Publications (00573)	
DISCUSSION	09:55-10:30			
WAY FORWARD DISCUSSIONS	10:30-11:15	Farrokh Mistree		