

2nd International Conference on Processing and Characterization of Materials (ICPCM-2019)

Programme

Thursday 12 Dec, 2019

14:00-15:00	Registration
15:00-15:40	Opening Session (folk dance, 7 chief guest and guest speeches)
15:40-16:00	WELCOME DRINKS AND SNACKS
16:00-16:40	PL01: Dr. Ashwin Gopinath, Mechanical Engineering, Materials Engineering, Massachusetts Institute of Technology, USA
16:40-17:20	PL02: Prof. PAN Jisheng, National University of Singapore (NUS), Singapore
17:20-18:00	PL03: Dr. P. C. Patnaik, Chief Defence Scientist-Aerospace, Canada

Friday 13 Dec, 2019

	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
09:30-10:10	PL04: Prof. S. Singamneni, Auckland University of Technology, New Zealand	PL05: Dr. Bruno D' Aguanno, Koine Multi Media, Italy	PL06: Prof. H. P. B. Hussain, University Technology PETRONAS, Malaysia	KY01: Prof. S. Aich, IIT-Kharagpur	KY02: Prof. T. Theivasanthi International Research centre, Kalasalingam University, India	KY03: Prof. T. Laha, IIT-Kharagpur	
10:10-10:30	KY04: Dr. B. Sahoo, Regional Director, DRDO	KY05: Dr. J. K. Sahu Principal Scientist, CSIR-NML	IN01: Prof. C. S. Tiwari, IIT Kharagpur	IN02: Prof. A. K. Nayak, VIT	IN03: Prof. R. N. Bulakhe, National University of Transportation, South Korea	IN04: Sct. P. Prusti, IMMT	
10:30-10:45	REFRESHMENT BREAK						
10:45-12:30	Contributory talk Gr1 (1-10)	Contributory talk Gr2 (1-10)	Contributory talk Gr3 (1-10)	Contributory talk Gr4 (1-10)	Contributory talk Gr5 (1-10)	Contributory talk Gr7 (1-10)	Poster Session- I Gr1 (P1-P18) + Gr2 (P1-P13)
12:30-14:30	LUNCH BREAK						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
14:30-16:30	Contributory talk Gr1 (11-21)	Contributory talk Gr2 (11-20)	Contributory talk Gr3 (11-20)	Contributory talk Gr4 (11-21)	Contributory talk Gr5 (11-21)	Contributory talk Gr7 (11-21)	Poster Session- II Gr3 (P1-P11) + Gr4 (P1-P5)+ Gr5 (P1-P6) + Gr6 (P1-P7)+ Gr7 (P1-P5)
16:30-16:45	REFRESHMENT BREAK						
16:45-18:00	Contributory talk Gr1 (22-28)	Contributory talk Gr2 (21-26)	Contributory talk Gr3 (21-26)	Contributory talk Gr4 (22-29)	Contributory talk Gr6 (1-7)	Contributory talk Gr7 (22-28)	Poster Session- III
19:00-21:00	BANQUET DINNER						

Saturday 14 Dec, 2019

	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
10:00-10:20	KY06: Dr. K. S. Arora, Tata Steel, Jamshedpur	IN06: Dr. K. Jeyasubramanian, Anna University	IN08: Dr. R. K. Satpathy, DMRL	IN10: Dr. S. Mohanty, NISER	IN12: K. Guguloth, NML	ST01: Sponsor Talk	
10:20-10:40	IN05: Er. P. Mallick, HAL	IN07: Dr. Kaushik Kumar, BIT Mesra	IN09: Prof. Renu Kumari NIT Jamshedpur	IN11: Er. Sampad Mishra, SAIL, RSP	IN13: Prof. N. K Sahu, VIT	ST01: Sponsor Talk	
10:40-10:50	REFRESHMENT BREAK						
10:50-12:30	Contributory talk Gr1 (29-37)	Contributory talk Gr2 (27-35)	Contributory talk Gr1 (38-48)	Contributory talk Gr7 (29-39)	Contributory talk Gr6 (8-15)		
12:30-14:30	LUNCH BREAK						
15:00-16:30	Announcement of Awards, Certificate distribution and Valedictory session						

Gr1: Materials Processing, **Gr2:** Materials Characterization, **Gr3:** Advanced Materials, **Gr4:** Composite, **Gr5:** Surface Degradation and Modification, **Gr6:** Waste Utilization, **Gr7:** Computational Materials

2nd International Conference on Processing and Characterization of Materials (ICPCM-2019)

Plenary/Keynote/Invited talk

	Speaker Name	Topic Title
PL01	Dr. Ashwin Gopinath, Massachusetts Institute of Technology (MIT), USA	Molecular nanostructure and nanomachines
PL02	Prof. PAN Jisheng, National University of Singapore (NUS), Singapore	2D materials for nanodevice application; Surface nanostructure formation
PL03	Dr. P. C. Patnaik, Chief Defence Scientist-Aerospace, Canada	Aeromaterials
PL04	Prof. Sarat Singamneni, Auckland University of Technology (AUT), New Zealand	Additive manufacturing; the present and the future
PL05	Dr. Bruno D' Aguanno, Koine Multi Media, Italy	Materials for Thermal Energy Storage (TES) at high temperatures - Recent Advances and Development
PL06	Prof. H. P. B. Hussain, University Technology Petronas (UTP), Malaysia	Failure Analysis of a Broken Pump Shaft
KY01	Prof. S. Aich, IIT Kharagpur	Magnetic Shape Memory Alloy and Its Applications
KY02	Prof. T. Theivasanthi, International Research centre, India	Superparamagnetic lead nanoparticles and semiconducting lead Nanoparticles
KY03	Prof. Tapas Laha, IIT Kharagpur	Plasma sprayed Fe-based metallic glass nanocomposite coatings: Multi-scale Tribological and corrosion properties
KY04	Dr. Benudhar Sahoo, DRDO, Delhi	Challenges during Manufacturing and Processing of Titanium Alloys for Aero-Engine
KY05	Dr. JitendraKumar Sahu, CSIR-NML, Jamshedpur	Fatigue Behaviour of Structural Alloys: Cyclic Deformation Micro-mechanism
KY06	Dr. Kanwer Singh Arora, Tata Steel Ltd. Jamshedpur	Characterization of High strength steel
IN01	Prof. C. S. Tiwari, IIT Kharagpur	Atomically thin 2D (Two-dimensional) materials: opportunity and challenges
IN02	Dr. Arpan Kumar Nayak, VIT	Transition Metal Oxide Based Nanostructured Materials for Environment and Energy Applications
IN03	Prof. R. N. Bulakhe, Korea National University of Transportation, South Korea	Synthesis of Nanohybrid Materials for Energy Storage
IN04	Sct. P. Prusti, IMMT	Revolving around Mineral Processing (Focus on Iron Ore)
IN05	Er. P. Mallick, HAL	Characterisation of plasma spray parameters to optimise the properties of abrasion coating used in axial flow compressors of aero-engines to maintain blade tip clearance
IN06	Prof. K. Jeyasubramanian, Anna University	Self-cleaning nano structures
IN07	Prof. Kaushik Kumar, BIT Mesra	Material Characterization using Spectroscopic and microscopic instruments
IN08	Dr. R. K. Satpathy, DMRL	Characterization of a Thermal Barrier Coating- An application perspective
IN09	Renu Kumari, NIT Jamshedpur	Development of bioactive coating on Ti-alloy by plasma spraying
IN10	Dr. Saralashrita Mohanty, NISER	Development of ceramic based dental crowns through green machining using 5-axis CNC Machine
IN11	Er. Sampad Mishra, SAIL	Rolling of Steel
IN12	K. Guguloth, NML	High temperature deformation behavior and microstructure of Cr-Mo steels
IN13	Prof. Niroj Ku. Sahu, VIT	Magnetic nanoassemblies for possible cancer treatment

2nd International Conference on Processing and Characterization of Materials (ICPCM-2019)

Date	Time	Particulars	Chair of the session	
13/10/2019	09:30-10:30	Plenary Talk (Room 1)	Prof. Smarajit Sarkar, NIT Rourkela	
		Plenary Talk (Room 2)	Prof. Debasis Chaira, NIT Rourkela	
		Plenary Talk (Room 3)	Prof. Anindya Basu, NIT Rourkela	
		Plenary Talk (Room 4)	Prof. Bankim Chandra Ray, NIT Rourkela	
		Plenary Talk (Room 5)	Prof. Subash Chandra Mishra, NIT Rourkela	
		Plenary Talk (Room 6)	Prof. Snehanshu Pal, NIT Rourkela	
	10:45-12:30	Contributory talk [Gr-1 (1-10)]		Prof. S. Singamneni, AUT, New Zealand
				Dr. Bruno D' Aguanno, Italy
				Prof. H. P. B. Hussain, Unv. of PETRONAS, Malaysia
				Prof. S. Aich, IIT Kharagpur
				Prof. T. Theivasanthi, Kalasalingam University
				Prof. T. Laha, IIT Kharagpur, Prof. S.K. Acharya
		Poster Session-I	Gr1 (P1-P18)	Prof. R. N. Bulakhe, South Korea
			Gr2(P1-P13)	Prof. S. K. Karak
	14:30-16:30	Contributory talk [Gr-1 (11-21)]		Prof. S. K. Patel and Er. D. Das, SPCB
				Prof. S. K. Sahoo and Dr. B. Sahoo, Regional Director, DRDO
				Prof. Archana Mallik
				Prof. Krishna Dutta
				Er. P. Mallick, HAL and Prof. S. K. Acharya, NIT Rourkela
				Prof. S. N. Alam and Dr. Biswajit Saha, NIT Rourkela
		Poster Session- II	Gr3(P1-P11)	Er. Sampad Mishra, SAIL
			Gr4(P1-P5)	Dr. K. Guguloth, NML
			Gr5(P1-P6)	Prof. A. K. Nayak, VIT
			Gr6 (P1-P7)	Dr. M. K. Panigrahi, OU
			Gr7(P1-P5)	Prof. Natraj Yedla, NIT-Rourkela
	16:45-18:00	Contributory talk [Gr-1 (22-28)], Room:1		Prof. S.S. Mohapatra (Mech), NIT Rourkela and Prof. K. Jeyasubramanian, Anna University
				Prof. Alok Satpathy and Dr. J. K. Sahu, CSIR-NML
				Prof. PAN Jisheng, Malaysia and Prof. N. K Sahu, VIT
				Prof. Sudipta Sen, NIT Rourkela and Prof. S. Murugan, NIT Rourkela
				Prof. C. R. Patra NIT Rourkela and Er. H. N. Nayak, OSPCB
			Prof. Akhilesh Sahoo and Prof. Snehanshu Pal, NIT Rourkela	
14/10/2019	Plenary Talk (Room 1)		Dr. Ashwin Gopinath, (MIT), USA	
			Prof. D. S. Bisht, NIT Rourkela	
			Prof. S. S. Mohapatra (Chem), NIT Rourkela	
			Prof. C. S. Tiwari, IIT Kharagpur	
			Prof. D. K. Behera	
			Prof. Natraj Yedla, NIT-Rourkela	
	10:50-12:30	Contributory talk [Gr-1 (29-37)], Room:1		Dr. K. S. Arora, Tata Steel and Dr. Ashwin Gopinath, (MIT), USA
				Dr. R. K. Satpathy, DMRL and Prof. D. S. Bisht, NIT Rourkela
				Prof. K. Jeyasubramanian, Anna University and Prof. S. S. Mohapatra (Chem), NIT Rourkela
				Dr. S. Mohanty, NISER and Prof. C. S. Tiwari, IIT Kharagpur
				Prof. Mithilesh Kumar, NIT Rourkela