

LIST OF ATM PRIZES AWARDED IN THE 63rd ANNUAL TECHNICAL MEETING OF THE INDIAN INSTITUTE OF METALS HELD IN SCIENCE CITY KOLKATA DURING NOVEMBER 16-17, 2009

Sl No	Category/ Symposium	Rank	Authors Name and Affiliation	Title of the Paper
ATM Oral Papers				
1.	Oral Symposium A	1 st	K. Jayasankar, P.S. Mukherjee* and A.K. Chaubey Institute of Minerals and Materials Technology (Formerly Regional Research Laboratory) (Council of Scientific & Industrial Research) Bhubaneswar- 751 013. <i>E-mail: psmukerjee@yahoo.com</i>	Utilisation of iron ore fines to make pig iron by thermal plasma technology
2.		2 nd (Joint)	P. Tripathi, S. Patil, D Satish Kumar, A. Sarkar, and P C Mahapatra JSW Steel Ltd., Vijayanagar Works, Toranagallu, Karnataka - 583275 <i>E-mail : sujay.patil@jsw.in</i>	Physical Modeling Optimization of Dam Height in Tundish for Improved Inclusion Flotation
3.			S.K. Gupta¹, A.K. Mukherjee¹, A. Paul¹, S. Kumar¹ and R. Saha² ¹ RDCIS, SAIL, Ranchi-834002, Phone-0651-2411121, ² IISCO Steel Plant, Burnpur-713325 <i>E-mail: psm@sail-rdcis.com</i>	Heat Processing With High Phosphorus in Twin Hearth Furnace
4.		3 rd (Joint)	B. Srivastava, S. K. Roy, and P. K. Sen* Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur, W B 721302 <i>*Email: pksen@metal.iitkgp.ernet.in</i>	Thermodynamic Modeling of Smelter Gasifier in Corex Process
5.			S Mondal, J N Sharma*, M F Fonseca, R C Hubli and A K Suri Materials Group, BARC, Mumbai 400085 <i>E-Mail: jnsharma@barc.gov.in</i>	Separation of Cobalt / Nickel using Novel Solvent Octyl (Phenyl) Phosphinic Acid (OPPA) from sulphuric acid medium

6.	Oral Symposium B	1 st	R. Sivaraman¹ and S. Karthikeyan² ¹ Department of Metallurgical and Materials Engineering, IIT-Madras ² Department of Materials Engineering, IISc, Bangalore	Dislocation dynamics simulations of jogged- screw dislocation
7.		2 nd	A. Bhattacharjee¹ and J.C. Williams² ¹ Defence Metallurgical Research Laboratory, Hyderabad, India-500 058 ² The Ohio State University, Columbus, U.S.A., OH-43210	Electron Back Scatter Diffraction Study of Crack Initiation During Dwell Fatigue in a Near Alpha Titanium Alloy
8.		3 rd (Joint)	D. Varma and M. Verma Head, R&D, BU Metals, ABB India DGM, CRM, JSW Steel Limited	Two Stand Reversing Cold Mill – A Solution for Production and Technology at Optimum Cost
9.			T N Prasanthi, C. Sudha, S Saroja and M Vijayalakshmi Physical Metallurgy Division, Materials Development and Characterization Group, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam - 603 102, India	Joining of Ti-5Ta-1.8Nb and 304L stainless steel by explosive welding and characterization of the microstructure
10.	Oral Symposium C	1 st	H. Bandyopadhyay and S. Karthikeyan Department of Materials Engineering, Indian Institute of Science, Bangalore	Strain Rate, Temperature and Grain Size Effects on the Deformation of Tantalum
11.		2 nd	S Roy¹, S Suwas¹, S Tamirisakandala², R Srinivasan³ and DB Miracle⁴ ¹ Laboratory for Texture and Related Studies, Department of Materials Engineering, Indian Institute of Science, Bangalore, INDIA ² FMW Composite Systems, Inc., Bridgeport, WV, USA ³ Mechanical and Material Engineering Department, Wright State University, Dayton, USA ⁴ Air Force Research Laboratory, Materials and Manufacturing Directorate, Wright-Patterson AFB, USA	Grain Refined Boron Modified Ti-6Al-4V Alloy: Role of Ti-B compound in Microstructure and Texture Evolution during Hot Working
12.		3 rd (Joint)	D Roy¹, O A Ojo², W Lojkowski³, R Mitra⁴, and I Manna^{5*} ¹ Materials and Metallurgical Engineering Department , NIFFT, Ranchi-834003,India ² Mechanical and Manufacture Engineering Department, University of Manitoba, Canada ³ Polish Academy of Sciences, Institute of High Pressure Physics (UNIPRESS), Sokolowska 29/37, Warszawa 01-142, Poland ⁴ Metallurgical and Materials Engineering Department Indian Institute of Technology, Kharagpur-721302, India	Microstructural evolution and mechanical properties of Al ₆₅ Cu ₂₀ Ti ₁₅ amorphous/nanocrystalline composite prepared by hot Isostatic Pressing
13.			A N Bhagat¹ and Neelkant² ¹ Researcher, R&D, Tata Steel, Jamshedpur ² Research Associate, R&D, Tata Steel, Jamshedpur	Formation of ultrafine grained ferrite during thermo-mechanical treatment in micro-alloyed steel
14.		1 st	S Bhattacharya*, V Mangam, K Das and S Das Department of Metallurgical and Materials Engineering Indian Institute of Technology, Kharagpur - 721302, India. <i>*E-mail: sumitbhattacharyaiitkgp@gmail.com</i>	Tribological Properties of CeO ₂ Particle Reinforced Copper Matrix Nanocomposites for Electrical Applications
15.	2 nd	G Paul, T Pal, P K Das, I Manna* Department of Mechanical Engineering, Indian Institute of	Determination of Thermophysical Properties of Nano-Au/ Nano-Ag	

	Oral Symposium D	(Joint)	Technology, Kharagpur, W.B., 721302 *Email: imanna@metal.iitkgp.ernet.in	Dispersed Nanofluids Synthesized by Chemical Precipitation Method
16.			Md Z Alam^{1*}, B Srivathsa¹, S V Kamat¹, N Hazari¹, V Jayaram² and D K Das¹ ¹ Defence Metallurgical Research Laboratory, Kanchanbagh, Hyderabad 500 058, India ² Indian Institute of Science, Bangalore 560 012, India *E-mail: zafir@dmrl.drdo.in,	Determination Of Tensile Properties of Free Standing Pt-Aluminide Bond Coats By Microtensile Testing
17.		3 rd	M Palit¹, H Basumatary¹, J A Chelvane¹, S Pandian¹, V Chandrasekaran¹ and K Chattopadhyay² ¹ Defence Metallurgical Research Laboratory, Kanchanbagh, Hyderabad - 500 058, India ² Dept. of Materials Engineering, Indian Institute of Science, Bangalore- 560 012, India Email: tcg@dmrl.drdo.in	Effect of Thermal History on Phase Stability and Magnetostriction of Fe-Ga Alloys
18.	Oral Symposium E	1 st	D Das^{1*}, A K Dutta² and K K Ray³ ¹ Dept. of Met. & Mater. Engg., Bengal Engineering and Science University, Shibpur, Howrah. ² Department of Mechanical Engineering , Bengal Engineering and Science University, Shibpur, Howrah. ³ Dept. of Met. & Mater. Eng., Indian Institute of Technology, Kharagpur. *E-mail: debdulal_das@metal.besc.ac.in; debdulal_das@yahoo.com	Effect of Sub-Zero Treatments on The Mechanical Properties of Die Steel
19.		2 nd (Joint)	B S Padekar¹, V S Raja², R K Singh Raman³ ¹ IITB-Monash Research Academy, ² Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai-400076, India, ³ Mechanical and Aerospace Engineering, Monash University, Clayton, Melbourne, Victoria 3800, Australia	Stress Corrosion Cracking Behavior of a Magnesium Alloy
20.			S Ningshen, U K Mudali and B Raj Indira Gandhi Centre for Atomic Research, Kalpakkam – 603 102, India. Email: kamachi@igcar.gov.in	Thermal Cycling Studies of 7-8% Yttria-Stabilized Zirconia Coating on 9Cr-1Mo Steel for Molten Chloride Environment
21.		3 rd	S S Hosmani¹, R E Schacher¹ and E J Mittemeijer² ¹ Metallurgical and Materials Engineering, NITK-Surathkal, Mangalore ² Max Planck Institute for Metals Research, Stuttgart, Germany Email: santosh.hosa@gmail.com	Surface Hardening of Iron-based Alloys using Thermochemical Heat-Treatment
22.		(Joint)	D K Das, Md Z Alam and B Sarma Defence Metallurgical Research Laboratory, Kanchanbagh, Hyderabad 500058, India.	Diffusion Silicide Coating on Refractory Metals And Alloys for Short-Term High Temperature Oxidation Protection

ATM Poster Presentation

23.	Poster Symposium A	1 st	PK Ray Choudhury¹, NK Ghosh¹, MK Kujur¹, SK Banerjee², S Mukherjee², C Banerjee² and S Chandrashekharan² ¹ RDCIS, SAIL, Ranchi-834002, ² Rourkela Steel Plant, SAIL, Rourkela-769011 <i>E-mail: pkrc@sail-rdcis.com</i>	Improvement in Steel Ladle Lining Life with In-House Bricks at SMS-II, RSP
24.		2 nd	S Agarwal, KM Godiwalla, KK Sahu and RK Jana Metal Extraction & Forming Division, National Metallurgical Laboratory, Jamshedpur 831007, India Council of Scientific & Industrial Research <i>E-mail: sanjay@nmlindia.org</i>	Effect of reductant on smelting of sea nodules for the recovery of copper, nickel & cobalt
25.		3 rd	J Pal¹, S Ghorai¹, DP Singh¹, AK Upadhyay¹, MC Goswami¹, D Bandyopadhyaya¹, D Ghosh² and S. Ghosh¹ ¹ National Metallurgical Laboratory, Jamshedpur-831007 ² Department of Metallurgical and Materials Engg., Jadavpur University, Kolkata-700 032	Development of Fluxed Iron Oxide Pellets for Steel Making Utilizing Waste Materials
26.	Poster Symposium B	1 st	P Kumar, S Biswas, S Singh and S Suwas Department of Materials Engineering, Indian Institute of Science, Bangalore-560012	Thermal stability of Multi-Axial Forged Interstitial Free steel
27.		2 nd (Joint)	D Samantaray, S Mandal and AK Bhaduri Materials Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, TamilNadu-603102	Optimization of processing parameters for hot working of modified 9Cr-1Mo steel using processing map
28.			V Rajakumaran¹, S K Giri², S Das² and S Karthikeyan¹ ¹ Department of Materials Engineering, Indian Institute of Science, Bangalore ² Tata Steel Research and Development, Jamshedpur	Effect of strain rate on the mechanical properties of TWIP steel
29.		3 rd	H Hadraba, L Stratil, I Dlouhy Institute of Physics of Materials, Academy of Sciences of the Czech Republic, •i•kova 22, Brno, Czech Republic	High temperature long service embrittlement of the RAFM EUROFER '97 steel
30.	Poster Symposium C	1 st	CR Das*, SK Albert, AK Bhaduri and BS Murty¹ Materials Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India ¹ Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai 600036, India <i>Email: chitta@igcar.gov.in</i>	Improvement of Creep Resistance of P91 Steel by Boron Addition
31.		2 nd (Joint)	A Sinha, S Datta and PP Chattopadhyay* Bengal Engineering and Science University, Shibpur, Howrah 711103, India	Nano-Mechanical Characterization Of Ni-Ti Alloy
32.			SK Das², S Chatterjee², S Tarafdar¹ ¹ National Metallurgical Laboratory, Jamshedpur-831007, India ² Bengal Engineering and Science University, Shibpur, Howrah 711103, India	Effect of Nano-Copper Precipitation on Fracture Behaviour of High Strength Low Alloy Steel

33.		3 rd	A Dasgupta*, PK Parida, S Saroja and M Vijayalakshmi Physical Metallurgy Division, Indira Gandhi Centre for Atomic Research, Kalpakkam - 603102, India <i>*Presenting author Email: arup@igcar.gov.in</i>	Grain refinement during annealing of a severely plastically deformed Ti-Ta-Nb alloy
34.	Poster Symposium D	1 st	S Bera¹, Z Zúberová², RJ Hellmig³, Y Estrin⁴ and I Mannai* ¹ Indian Institute of Technology Kharagpur ² Bosch Rexroth, Brueninghaus Hydromatik GmbH, An den Kelterwiesen 14, 72160 Horb, Germany ³ EJOT GmbH & Co. KG, 57334 Bad Laasphe, Germany ⁴ Department of Materials Engineering, Monash University, Clayton, Victoria, Australia <i>*E-mail: imanna@metal.iitkgp.ernet.in</i>	Development of Cu-base alloys with nano-Al₂O₃ dispersion for electrical contacts by mechanical alloying and equal channel angular pressing
35.		2 nd (Joint)	AP Srivastava¹, K Sudarshan², D Srivastava^{1*}, G. K. Dey*, KG Suresh² and P. K. Pujari² ¹ Materials Science Division, ² Radio Chemistry Division, Bhabha Atomic Research Center, Mumbai 400 094 ³ Physics department, Indian Institute of Technology, Bombay, INDIA <i>*Email: apsrivas@gmail.com</i>	Characterization of modified FINEMET soft magnetic metallic glass by Positron life time spectroscopy
36.			JK Sonber*, TSR Ch Murthy, C Subramanian, RK Fotedar and AK Suri Materials Group, Bhabha Atomic Research Centre, Mumbai, India <i>*Email: jitendra@barc.gov.in</i>	Densification of refractory diborides and its composites
37.		3 rd	P Sarkar*, O Mohanta, RK Roy, SK Pal, AK Panda, A Mitra National Metallurgical Laboratory, Jamshedpur-831007, India <i>*E-mail: parthasarkar@nmlindia.org</i>	Study of Magneto-Impedance Behavior of Co-Fe-Nb-Si-B Based Ribbons
38.		1 st	AK Chikkam¹, MK Debnath¹, J Dutta Majumdar¹, NB Dahotre² and I Mannai* ¹ Metallurgical & Materials Engineering Department, I.I.T., Kharagpur, W.B. 721302 ² Department of Mater. Sci. Engg., University of Tennessee, Knoxville, TN 37996, USA <i>*E-mail: imanna@metal.iitkgp.ernet.in</i>	Fe-Cr-Mo-Y-B-C bulk metallic glass coating on AISI 4340 steel by Laser surface cladding
39.	Poster Symposium E	2 nd (Joint)	SB Arya¹, VS Raja, AN Tiwari and Y Katada³ ¹ Metallurgical and Materials Engineering, NITK-Surathkal, Mangalore Metallurgical Engineering and Materials Science, IIT Bombay, Mumbai ³ National institute of Materials Science, Japan <i>E-mail: sbhushanarya@gmail.com</i>	Electrochemical corrosion behavior of high nitrogen, Ni and Mn free stainless steels in Ringer physiological solutions
40.			A Ravi Shankar, A Kanagasundar² and UK Mudali Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research Kalpakkam - 603 102, India ² Department of Metallurgical Engineering, P.S.G. College of Technology, Coimbatore - 641 004 <i>E-mail: kamachi@igcar.gov.in</i>	Corrosion of Nickel Base Alloys in Molten LiCl-KCl Medium
41.		3 rd	T Pal, V Venkatesan, KB Khan and A Kumar Radiometallurgy Division, Bhabha Atomic Research Centre Mumbai-400085 <i>*E-mail: titaspal@barc.gov.in</i>	Aqueous Corrosion Study on U-Mo Alloy

Students' Convention

42.	UG-1 ORAL	1 st	A Mangal Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur -721302, India <i>E-mail :mangalanks@gmail.com</i>	Influence of Stress on Bainite Formation
43.	UG-2 ORAL	1 st	Khushboo Metallurgical and Materials Engineering Department, Indian Institute of Technology Kharagpur -721302, India.	Fabrication of densed in-situ Ti-Si-C nano - composite by Self propagating high temperature synthesis (SHS) process
44.	PG ORAL	1 st	Peranandhanathan. M Process & Steel Research Laboratory, Department of Materials & Metallurgical Engineering, Indian Institute of Technology, Kanpur <i>E-mail: pera@iitk.ac.in</i>	Slag Eye Area: Measurements and Correlations
45.	POSTER	1 st	M Abhiram Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai- 600036 <i>EMail: abhiram34@gmail.com</i>	Modeling of Fluid Flow and Inclusion Particle Behavior in Steelmaking Tundish
46.		2 nd	H Agarwal and R Shukla Institute of Technology, Banaras Hindu University <i>E-mail: himanshu.agarwal.met07@itbhu.ac.in</i>	Synthesis and characterization of APTS and Citric acid functionalized ferrofluids
47.		3 rd	MP Meshram and PP Murmey IIM Pune Chapter, Deptt of Metallurgical Engineering Govt. College of Engineering, Shivajinagar Pune-411005 (India)	Galvanostatic deposition of conducting poly (aniline-co-o-anisidine) coating on low carbon steel and its corrosion performance

Metallography Contest

48.	Optical	1 st	A Bag Singapore	Formation of Scaffolding with σ-Phase in γ-Matrix
49.		2 nd	M Das BARC, Mumbai	Davils' Staircase in Perovskite-Formation of Twins During Growth of LaAlO₃
50.		3 rd	SK Dhua, J Guria, UN Jha, PP Sarkar and BD Tripathi RDCIS, SAIL, Ranchi	Bamboo Shhot
51.	SEM	1 st	S Bhanumati DMRL, Hyderabad	Linolium Flooring BSE-SEM image of Ti-12Nb
52.		2 nd	SK Dhua, CB Sharma and BD Tripathi RDCIS, SAIL, Ranchi	Flower Petals
53.	TEM	1 st	CN Venkateswaran, P Parameshwaram, V Anandraj, NG Muralidharan, B Raj IGCAR, Kalpakkam	