



THE INSTITUTE OF INDIAN FOUNDRYMEN

India Expo Centre, Knowledge Park-II, Greater Noida
27th February to 1st March, 2015

I FERROUS CASTING TECHNOLOGY

(Including Melting, Refractories, Grey, SG, AD, CG Irons, Inoculation, Metallurgy)

No.	TITLE	AUTHOR(S)
1	Effect of Chromium and Molybdenum Additions on the Development of Carbide Austempered Ductile Iron	Sunny Kumar, I.Chakrabarty
2	Quality Furnaces for Investment Casters	P.D.Chaubal
3	Inductor Meter Readings: The Key to Channel Lining Campaigns	William R. Pflug
4	Investigation of Characteristics of CO ₂ Mold for Stainless Steel Casting	Sanjay Randiwe, Dheeraj S. Bhigade, A.M. Kuthe
5	Pre-Conditioning of Metal Concept, Evolution & Present Day Practices	Kumar Kislay, Nadimuthu S., Srikanth S.
6	Stator Housing Production by using Green Sand Moulding	V.N.Satyanarayana, A. Suresh Kumar
7	Investigation of Mechanical and Wear Properties of Austempered Gray Cast iron (AGI) in Accordance with Austempering Temperature	Tanmoy Sarkar, G. Sutradhar

II NON-FERROUS CASTING TECHNOLOGY

(Including Gravity and Pressure Die Castings, LPD, Metal Matrix composites, Magnesium castings)

No.	TITLE	AUTHOR(S)
8	Theoretical Study of Solidification of Pb-Sn Alloy and its Experimental Validation	Shrikant Sahu, Shashi Munda and Amitesh Kumar
9	Metal Matrix Composites for Transportation System to Conserve Energy	Goutam Sutradhar, Pradeep Kumar Rohatgi
10	Aluminium Castings Surface Preparation improves Productivity & Cost Reduction in Foundry	P.A.Patel
11	Aluminium Alloys Characterization by using Thermal Analysis Method in Aluminium Recycling Units	T.Siva, R.Sankar, M.Kamaraj
12	Effect of Vibration on Microstructure of AZ91 Magnesium Alloys	Vatsala Chaturvedi, Upender Pandel, Ashok Sharma
13	Experience with Al-Mg Alloy Castings in Defence Application	V.N.R.Nayudu
14	Cause and Effect of Cold Flakes or Externally Solidified Product (ESP) in Aluminum High Pressure Die Casting	Sachin Kumar
15	Development of Aluminum Based Nano Composite by Casting Route	Kishor Pawar, Sushil Patel, Rahul Kumar, Amitesh Kumar
16	Effect of Grain Refinement on Hot Tearing in Aluminium Alloys	Sachin Rathi, Ashok Sharma, Marisa Di Sabatino
17	Review of the Latest Developments in Grain Refinement of Aluminum Alloy	Rahul Tyagi, Ashok Sharma



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No.	TITLE	AUTHOR(S)
18	Development of Critical Function to Predict Shrinkage Porosity in Aluminum Alloy Supported by Solidification Simulation	M.S. Parmar, S.G. Baraiya and A.V. Sata
19	Grain Refinement under the Influence of Mold Vibration During Solidification of LM6 Alloy Castings	Vardhaman S Mudakappanavar and H M Nanjundaswamy
20	Nano-Alumina Particle Reinforced Grain Refined Aluminum Composite Foam: Synthesis and Characterisation	D. P. Mondal and S.Das
21	Review of Metal Matrix Composites with Advance Materials for Industrial Applications	B. Praveen and Anil Kumar Birru
22	Experimental Analysis of Microstructure and Mechanical Behaviour in Fine Grained Aluminium Alloy	P. K. Mandal
23	Synthesis and Characterization of Aluminium MMC Foam by Stir-Casting Technique using Dual Foaming Agent	Shamim Haidar and Goutam Sutradhar

III MOULDING AND CORE MAKING - MATERIALS, METHODS AND TECHNOLOGY (Including Green Sand Moulding and Coating)

No.	TITLE	AUTHOR(S)
24	Innovative Binder and Refractory Coating Solutions for Highly Complex Castings	Amine Serghini, Klaus Seeger
25	Core Shop Modernization in Recent Foundries	Palanichamy TK
26	Creating Superior Molding Sand Performance by Blending Benonites	Nick Richardson, G. Grefherst, S. Boehnke, V. LaFay
27	Non-Standard Tests for Process Control in Chemically Bonded Sands	Sam Ramrattan
28	Analysis of FNB Casting Defects in Foundry - A Need of the Day to Improve Productivity of Foundry	Shailee G. Acharya, Jeetendra A.Vadher, Manoj V Sheladiya
29	Perspective on Use of Green Sand Additives as Essential Contaminants	Deepak Chowdhary
30	Automated Coating Application Process for Defect Free Castings	Sushil Sharma
31	CO ₂ Cured Phenolic, a New Gas Curing Mold/Core Making System for Indian Foundries	D. Ghosh



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IV MANAGING FOUNDRY

(Including Quality, Quality systems, Productivity, Energy, Resources and Profitability)

No.	TITLE	AUTHOR(S)
32	Casting Optimization through Advanced Tools and Techniques	Pankaj Chaudhari
33	Intelligent Systems for Data Storing and Analyzing	P. Malinowski, J. S. Suchy
34	Efficient Management of Energy & Natural Resources	Damodar B.Kulkarni, Mangesh M Deshpande
35	A Sustainable Energy Efficiency and Renewable Energy Solution to Indian Foundry Sector	R.Sivakumar, Sadanand Humbarwadi
36	Energy Management at Melt Shop - A National Challenge	Anant Bam
37	Best Operating Practices in Induction Furnace: Experiences from Research Partnership with Japan	Prosanto Pal, Girish Sethi, Kazuya Sekimoto, and Abdessalem Rabhi
38	Energy Conservation Opportunities in Foundry Sector	V.K. Srivastava
39	Quality Prediction through Combined Simulation of Ingot Casting and Forging	I Hahn, M. Schneider, H. Schafstall, C. Barth
40	Green Sand Reclamation for Core Production	Paolo Bocca, Manish Kothari
41	Thermal Sand Reclamation – Increasing Efficiency and Viability	Paolo Bocca, Manish Kothari
42	Improving Energy Efficiency in Aluminium Foundry	Prabhat Kr. Dwivedi, Sadhwee Singh, Ashok Sharma, Sharad Prakash
43	Indian Foundry Market as Seen by Casting Buyer	Sergey Ershov
44	Productivity Improvement through Lean Transformation	Viren Joshi
45	Cost of Poor quality – Need of Hour for Foundries Survival	Rajesh Goel
46	Six- Sigma- for a Metamorphosis to Competence	P.Thareja
47	Spectrometer as a Quality Management Tools for Ferrous & Non-ferrous Alloys	C.R.Seshadri
48	Auditing Skill - A Technique of Quality Management System in Foundry Industry	Arun Kumar Bose
49	Implementation of Lean Manufacturing in Foundry Industry- An Overview	B.K. Sharma, Manan Shukla and Ganesh Dubey



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V SKILL DEVELOPMENT AND EDUCATION

No.	TITLE	AUTHOR(S)
50	Foundry Education, Environment and Productivity	G. L. Datta
51	Bridging the Industry – Skill Gap with Proven Swiss VET Platform	Manish Kothari, Franz Probst
52	Quality Management in Skill Development	Dinesh Gupta and Navita Gupta

VI INNOVATIONS AND SIMULATIONS

(Including 3D Printing, Rapid prototyping, Investment Casting, Lost Foam)

No.	TITLE	AUTHOR(S)
53	Critical Analysis of Rapid Prototyping Assisted Investment Casting for Medical Implants	Dheeraj S. Bhigade, Sanjay Randiwe, A. M. Kuthe
54	3D Printing Enabled Rapid Manufacture of Metal Parts at Low Cost	Himanshu Khandelwal, B.Ravi
55	Rapid Development of Export Items in our Foundry by Simulation Techniques – Some Industrial Case Studies	Tapan Roy
56	Kimura's Innovation History for Full Mold Casting (FMC)	H Kimura
57	Cost Reduction in Manufacturing of Axle Hub	Abhishek Singhal, Ravindra Padwal, Vivek Shinde
58	Optimized Feeding System for Investment Casting to Reduce Dimensional Variation	Sangita Bansode, V. M. Phalle, S. S. Mantha
59	Optimization of the Gating System components using 3D CAD Modeling and Casting Simulation to Improve the Casting Yield	Utkarsh S.Khade, Suresh M.Sawant
60	Mechanical Property Prediction of Investment Castings using Artificial Neural Network and Multivariate Regression Analysis	Amit Sata, B Ravi
61	Computer Simulation to Predict Residual Stress and Distortion in Castings to Optimize Machining Allowance and Enhance Product Quality	S Shamasundar, K. Bhuwarka

VII POWER POINT PRESENTATIONS

No.	TITLE	AUTHOR(S)
62	Modern Advance in the Production and Application of High Quality Nodularisers and Inoculants	John Hughes
63	Wealth Out of Foundry Wastes	N.Visvanathan
64	Knowledge Management in Foundry	John Mirka
65	The Global Castings Industry	Eurling Andrew Turner