

IFC 2012
TECHNICAL SESSIONS PROGRAM

| 03 March 2012 Technical Sessions – 9:30 am – 11:00 am | | | |
|--|---|---|---|
| Gulmohar – Hall 1 Cast Iron / Ductile Iron | Parijatha - Hall 2 Aluminum | Casia - Hall 3 Process Technology | Jacaranda Annex - Hall 4 Academic / General |
| <p style="text-align: center;">9:30 – 9:50 am Author: Mr. Volks Christof Title: New Developments in Spot Feeding Technology for Iron</p> <p style="text-align: center;">9:52 – 10:10 am Author: Mr. V S Saravanan Title: Thermal Analysis – An Emerging Useful Tool in Ductile Iron Foundries</p> <p style="text-align: center;">10:12 – 10:30 am Author: Dr. D S Padan Title: A Practical Approach of Inoculation Process – A mandatory step in grey iron melting</p> <p style="text-align: center;">10:32 – 10:50 am Author: Dr. V P Gupta Title: Duplexing Form Cupolas, The most energy efficient ecofriendly and cost effective melting technology for iron foundries in India</p> <p style="text-align: center;">10:50 – 11:00 am Discussions & summing up</p> | <p style="text-align: center;">9:30 – 9:50 am Author: Mr. A Pari Title: Optimisation of HPDC using Flow Simulation – Case Studies</p> <p style="text-align: center;">9:52 – 10:10 am Author: Dr. Himadri Chattopadhyay Title: Semi-Solid Forming and the Indian Scenario</p> <p style="text-align: center;">10:12 – 10:30 am Author: Mr. Anant Bam Title: Surpassing the Standard Limits of Electrical Conductivity in A356(6) Aluminum Alloy Castings by Innovative Approach of Metal Treatment</p> <p style="text-align: center;">10:32 – 10:50 am Author: Mr. D Dhanya Prasad Title: Light Alloys – Newer Techniques and Technologies</p> <p style="text-align: center;">10:50 – 11:00 am Discussions & summing up</p> | <p style="text-align: center;">9:30 – 9:50 am Author: Mr. Arun Kumar Bose Title: Quality Inspection Practices in Foundry – Experienced Case Studies</p> <p style="text-align: center;">9:52 – 10:10 am Author: Mr. P A Patel Title: Shot Blasting Increases Efficiency & Surface Finish in Foundry Industries</p> <p style="text-align: center;">10:12 – 10:30 am Author: Mr. Jonas Oldin Title: Refractory Innovations Permitting Energy and Cost Savings in Foundry Applications</p> <p style="text-align: center;">10:32 – 10:50 am Author: Dr. Matti Sirvio Title: New Technologies of Making Foundry Products</p> <p style="text-align: center;">10:50 – 11:00 am Discussions & summing up</p> | <p style="text-align: center;">9:30 – 9:50 am Author: Prof. M Chakraborty Title: Recent developments in Aluminum alloy reinforces Titanium Diboride in Situ Composites</p> <p style="text-align: center;">9:52 – 10:10 am Author: Dr. Goutam Sutradhar Title: Energy Requirements of Indian by 2030: Steps to be taken in casting sector</p> <p style="text-align: center;">10:12 – 10:30 am Author: Mr. Prashant Mestry Title: How to make profits by upgrading molding process</p> <p style="text-align: center;">10:32 – 10:50 am Author: Mrs. B N Sarada Title: Influence of age hardening on tensile strength and machinability of Al-7.0Si-0.6 Mg (A357) alloy</p> <p style="text-align: center;">10:50 – 11:00 am Discussions & summing up</p> |



03 March 2012

| | |
|--|--|
| 11:30 am – 12:00 noon – Inauguration (Jacaranda) | |
| <ul style="list-style-type: none">→ Dr. A Ramachandran, Chief Guest→ Prof. M R Seshadri→ Prof. Merton C Flemings→ Mr. Vikram Kirloskar→ Dr. Sundaramurthy, President, IIF | |
| 12:00 noon – 1:00 pm Honour Lecture – Prof Merton C Flemings Title: Metal Casting Innovations 1952 - 2012 & beyond – A personal view | |
| 1:00 – 2:00 pm – Lunch Break | |
| Plenary Session 1 (Gulmohar) 2:00 – 2:25 pm – Prof. S Ranganathan Title: Solidification Processing : Indian Heritage 2:28 – 2:53 pm – Mr. Oddvar Knustad Title: Grey Cast Iron for the automotive Industry 2:55 – 3:20 pm – Dr. B Ravi Title: Technical Manpower Training for Foundries: NKN E-Foundry Mission 3:20 – 3:30 pm – Discussions & summing up | Plenary Session 2 (Gulmohar) 4:00 – 4:25 pm – Dr. E S Dwarakadasa Title: Supply & Demand Issues in Engineering Training & Production 4:28 pm – 4:53 pm – Prof Adel Nofal Title: ADI- The dynamic benchmark material and its new applications 4:55 pm – 5:20 pm – Mr. Gopal Padki Title: 2020 Value Chain & Challenges of the Foundry Industry in China 5:20 pm – 5:30 p m – Discussions & summing up |



04 March 2012 Technical Sessions – 9.30 am to 11.00 am

| Gulmohar - Hall 1 Cast Iron / Steel | Casia - Hall 2 Aluminum/Magnesium | Parijatha - Hall 3 Process/Technology | Jacaranda Annex - Hall 4 Academic / Research | Board Room - Hall 5 Academic / General |
|--|---|---|---|---|
| <p>9:30 – 9:50 am Author: Mr. Rob Logan Title: A Review of High Temperature SiMo Iron foundry Processes and Alternative Materials</p> | <p>9:30 – 9:50 am Author: Mr. Muthiah Thirugnanam Title: How to Solve Casting Defects in the Aluminum Gravity Die Castings in the Shop Floor?</p> | <p>9:30 – 9:50 am Author: Dr. Reinhard Stotzen Title: New coating and additives concepts as an entire approach for defect and residue free castings</p> | <p>9:30 – 9:50 am Author: Dr. D P Mondal Title: Hybrid Al-Cenosphere Closed Cell foam through Stir Casting Technique</p> | <p>9:30-9:50 am Author: Dr. Anjan Pradhan Title: A New method of casting in Sand Cast Foundry</p> |
| <p>9:52 – 10:10 am Author: Mr. S Venugopal Title: Import Substitution Effort for a Nickel Based Supply Alloy Material for Aero Engine Application</p> | <p>9:52 – 10:10 am Author: Titas Nandi Title: Experimental Investigations on optimization of riser neck size of aluminum alloy (LM6) castings</p> | <p>9:52 – 10:10 am Author: Dr. Christian Kleeberg Title: Energy and raw material savings in foundries through thorough utilization of simulation</p> | <p>9:52 – 10:10 am Author: Mr. Sourav Kayal Title: Castability of Al/SiCp metal matrix composites</p> | <p>9:52 – 10:10 am Author: Mr. Raghavendra Pratap Singh Title: Effect of Semi-Solid processing on aluminum die cast alloy</p> |
| <p>10:12 – 10:30 am Author: Mr. J Anburaj Title: A study on melting practice of high nitrogen superaustenitic stainless steel using conventional induction melting technique</p> | <p>10:12 – 10:30 am Author: Prof L B Singh Title: Advancements of New Technologies in Aluminum Casting</p> | <p>10:12 – 10:30 am Author: Mr. Shuichi Tsuzuki Title: Development of Aeration Molding Method & Practical use of a small size flaskless molding machine</p> | <p>10:12 – 10:30 am Author: Mr. S Aravindan Title: Casting of Light Weight Magnesium Based Composites</p> | <p>10:12 – 10:30 am Author: Mr. Vardhaman Mudakappanavar Title: ANN Technique to control cast defect.</p> |
| <p>10: 32 am – 10:50 am Author: Mr. Tapan Roy Title: Analysis of Hot Tear Defects in Steel Foundry by Auto Cast CAD Simulations and Some Industrial Case Studies</p> | <p>10: 32 am – 10:50 am Author: Tom Heider Title: A case for Die Coatings</p> | <p>10: 32 am – 10:50 am Author: Mr. Graham Cooper Title: Your Melt shop's competitive advantage: Effective, Productivity, Safety & Environmental Responsibility</p> | <p>10: 32 am – 10:50 am Author: Mr. Sujit Das Title: Experimental investigation on the effect of reinforcement particles on the mechanical properties of aluminum metal matrix composites</p> | <p>10: 32 – 10:50 am Author: Dr. P.C. Maity Title: Sheet Metal Mould Casting – A New Process for Production of Castings.</p> |
| <p>10:50 – 11:00 am Discussions & summing up</p> | <p>10:50 – 11:00 am Discussions & summing up</p> | <p>10:50 – 11:00 am Discussions & summing up</p> | <p>10:50 – 11:00 am Discussions & summing up</p> | <p>10:50 – 11:00 am Discussions & summing up</p> |



04 March 2012 Technical Sessions – 11:30 am – 1:00 pm

| Gulmohar - Hall 1 Ferrous (CI+Steel) | Parijatha - Hall 2 Aluminum | Casia - Hall 3 Process/Technology | Jacaranda Annex - Hall 4 Academic / Research | Hall 5 Board Room |
|---|---|---|--|--|
| <p>11:30 – 11:50 am Author: Dr. S Seetharamu Title: Advance in the technology tasks to meet the demands for the high temperature cast materials for the supercritical power plants in India</p> <p>11:52 am – 12:10 pm Author: Dr. K K Singh Title: Effect of Section Thickness & Austempering Variables on Structure – Property of Thin Wall Austempered Ductile Iron</p> <p>12:12 pm – 12:30 pm Author: Mr. Archis Patankar Title: High Performance coatings for automotive foundries – An Indian Experience</p> <p>12: 32 pm – 12:50 pm Author: Mr. B R Niranjan Title: Evaluation & Optimisation of Methoding of Alloy Steel Castings for Quality and Yield by numerical Simulation</p> <p>12:50 – 1:00 pm Discussions & summing up</p> | <p>11:30 – 11:50 am Author: Mr. Bangalore Kesavaram Title: Comparison of Mechanical properties with varying % FE on front knuckle castings made from A356 aluminum alloy using 'Low pressure permanent mold' process at Gamco Wapakoneta</p> <p>11:52 am – 12:10 pm Author: Prof. Wu Shenqing Title: Ceramic short fiber reinforced A1 alloy composite piston for automobile engines in China</p> <p>12:12 pm – 12:30 pm Author: Mr. Ramesh K Nayak Title: Experimental Investigation on Shrinkage Pattern for Aluminum Alloy Investment Casting</p> <p>12: 32 pm – 12:50 pm Author: Mr. Mayur Sutaria Title: Multi Parameter Optimization of casting feeding system using simulation meta-model</p> <p>12:50 pm – 1:00 pm Discussions & summing up</p> | <p>11:30 – 11:50 am Author: Mr. Thorsten Reuther Title: Former Theories of Filtration when compared with new cognitions</p> <p>11:52 am – 12:10 pm Author: Mr. V G S Mani Title: Automation of online manufacturing data capture for enhancing competitiveness of foundries</p> <p>12:12 pm – 12:30 pm Author: Mr. Chris Wilding Title: Latest Developments in Thermal Reclamation</p> <p>12: 32 pm – 12:50 pm Author: Mr. Jivraj Sutaria Title: Sustainability & Sustainable Technology</p> <p>12:50 pm – 1:00 pm Discussions & summing up</p> | <p>11:30 – 11:50 am Author: Mr. K.H. Renukananda Title: Flow Rates in Multi-Gate Systems: Experimental & Simulation Studies.</p> <p>11:52 am – 12:10 pm Author: Mr. Shamim Haidar Title: Fabrication of Aluminum Foam by Stir Casting and an Approach to Improve its Performance</p> <p>12:12 pm – 12:30 pm Author: Mr. Rabindra Behera Title: Experimental Study on Forgeability of LM6/SiCp Metal Matrix Composites</p> <p>12: 32 pm – 12:50 pm Author: Mr. Vaisakhi Nandi Title: Development of aluminium-silicon alloy casting as tank outlet adaptor for aerospace application</p> <p>12:50 pm – 1:00 pm Discussions & summing up</p> | <p>11:30-11:50 am Author: Mr. C. Vasantharaju Title: A Case Study on use of RPT for development of Centrifugal Pump Casting for Military aircraft.</p> <p>11:52 – 12:10 am Author: Mr. Siddaraju Title: Corrosion Characteristics of Ductile Iron Castings subjected to Austempering Heat Treatment.</p> <p>12:12 pm – 12:30 pm Author: Mrs. Neeta Goel Title: Green MSME Foundries – A Case Study.</p> <p>12: 32 pm – 12:50 am Author: Mr. Purushottam Godhia Title: Bench marking a Tool for continuous improvement in foundries.</p> <p>12:50 pm – 1:00 pm Discussions & summing up</p> |
| 1:00 – 2:00 pm LUNCH BREAK | | | | |
| 2:00 – 3:00 pm TECHMART – AUTOMATION IN FETTLING – Casia – Hall 3 | | | | |
| 3:00 – 4:00 pm STUDENTS FORUM – Gulmohar – Hall 1 | | | | |
| 4:15 pm VALEDICTORY - Jacaranda | | | | |



60th Indian Foundry Congress, March 2-4, 2012,
Venue: BIEC, Bangalore