



# INTERNATIONAL CONFERENCE ON FOUNDRY FOR THE FUTURE



14<sup>th</sup> to 16<sup>th</sup> Oct 2011,  
Coimbatore, India



INTERNATIONAL CONFERENCE  
ON

## FOUNDRY FOR THE FUTURE



*Theme:*  
INDIAN FOUNDRY INDUSTRY – ISSUES  
AND OPPORTUNITIES FOR GROWTH

14<sup>th</sup> to 16<sup>th</sup> Oct 2011

Vijaya Fair Grounds,  
Tiruchy Road,  
Coimbatore, India



Organised by



The Indian Institute of  
Metals  
Tiruchirappalli Chapter  
& Coimbatore Chapter



TIFE  
COIMBATORE

## INDIAN FOUNDRY INDUSTRY – THE PRESENT

India is a country of great opportunities. The Indian Metal casting (Foundry Industry) is well established. According to the recent World Census of Castings by Modern Castings, USA, India Ranks as 2nd largest casting producer producing estimated 7.4 Million MT of various grades of Castings as per International standards.

The various types of castings which are produced are ferrous, non ferrous, aluminium alloy, graded cast iron, ductile iron, steel, etc. for application in Automobiles, Railways, Pumps, Compressors & Valves, Diesel Engines, Cement / Electrical / Textile Machinery, Aero & Sanitary pipes & Fittings, etc. & Castings for special applications. However, Grey iron castings is the major share approx 70 % of total castings produced. There are approx 4500 units; out of which 80% can be classified as Small Scale units & 10% each as Medium & Large Scale units. Approx 500 units are having International Quality Accreditation.

The large foundries are modern & globally competitive and are working at nearly full capacity. Most foundries use cupolas using LAM Coke. There is growing awareness about environment & many foundries are switching over to induction furnaces & some units in Agra are changing over to cokeless cupolas.

The Exports are showing healthy trends approx 25-30% year after year. The industry directly employs about 5,00,000 people & indirectly about 1,50,000 people and is labour intensive. The small units are mainly dependent on manual labour. There are several foundry clusters. Some of the major clusters are at Batala, Belgaum, Rajkot, Agra, Jalandhar, Chennai, Coimbatore, Ludhiana, Kolhapur, Howrah and Pune.

## ISSUES & OPPORTUNITIES

### Investment:

India would need approx. \$ 3 Billion in investment to meet the demand of growing domestic industry and strong export drive. Following the economic reforms the Government of India has reduced tariffs on imported capital goods. As a result, the annual average amount of FDI is reported to

have increased; but is still one tenth of the annual FDI in China. The reforms also encourage the privatization of industry, enabling foreign companies to invest or enter into joint ventures with Indian Foundries. Several International Corporates from USA, EU and East Asian countries have increased overseas foundry operations in India. i.e. VOLVO foundries in Chennai and Suzuki in Haryana. Sundaram Clayton has joined hands with Cummins. Hyundai Motors, Delphi. Ford India, Tata-Cummins, GM and Ford have contracts of foundry products for export with a value of \$ 40 Million.

#### Raw material & Energy:

Since 2003, the steep increase in cost of raw materials and energy have resulted in the closure of approx. 500 units. Overall, India is exporter of Pig Iron; but must import Scrap metals and coke, etc. Cost recovery for material and energy is very difficult as most contracts are long term contracts without any clause for price adjustment. Moulding sand is locally available & India has an advantage on this account. Energy cost typically vary between 12-15%.

#### Labour:

India has major competitive advantage over the foundry industries in the developed countries. The total labour cost account for 12-15 %. But availability of skilled labour becomes an issue; bothering many industries including the foundry industry.

### THE FUTURE

The World Foundrymen Organisation (WFO) predicts a continued strong growth for the Indian and Chinese foundry industry. Few more predictions of WFO are:

- Existing foundries are busy making investments to increase capacities.
- Present rapid growth in foundry business will continue for next few years. Margins are, however, low.
- SUVs and Heavy Truck makers have made big investment in India.
- There has been large increases in Raw Materials price.
- The biggest problem was a huge shortage of Trained Workers.
- Invested a great deal in Education and Training.
- India has started a programme to set up Centres of Excellence for different need based training, and as and when needed, WFO would be called on for advice.

### FOUNDRY FOR FUTURE

The International Conference “**Foundry For Future**” will take stock of the situation and provide a platform to deliberate on the positive steps to be taken up to seize the opportunities and the ways to face off the challenges. The deliberations spread over for the three days will cover:

- Higher cost of inputs such as power, raw materials, higher import duties on raw materials such as pig iron, as compared to in the competing countries
- Improving productivity
- Simple mechanisation & automation
- Modern manufacturing techniques, design and in process quality techniques
- Modern foundry manufacturing techniques
- Reducing power consumption



will address the above issues concerned to the foundry professionals. The presentations will include applications in the following areas:

- Steel Casting
- Non-Destructive Testing
- Energy Management and Audit in Foundries
- Repair and Reclamation Technology of Casting
- Engineering Method and Practices in a Foundry
- Moulding Processes
- Air Pollution Measurement and Control in Foundries

- Heat Treatment of Quality Ferrous Castings
- Application of Welding in Foundry Casting
- Machining Technology for Castings
- Application of robotics and automation in foundry technology
- Inspection and Quality Control
- Health and safety
- Training in foundry technology

#### INVITATION TO DELEGATES

The organisers are pleased to invite the professionals and engineers engaged in design, manufacturing and quality control functions and academicians to participate as delegates and make the interaction mutually beneficial. **Foundry For Future 2011** aims at providing a technical platform for well known international and national experts to deliberate on the key issues of foundry industry and the emerging trends.

The delegates will be immensely benefitted by the deliberations.

In addition, the delegates will have an opportunity to get first hand information on the latest trends in foundry equipments and accessories that would be displayed in the concurrent **FOUNDRY TECH 2011**.

### FOUNDRY TECH 2011 (An International Exhibition on Foundry Technology)

**Foundry Tech 2011** is an ITPO approved international exhibition providing opportunity for foundrymen, professionals & technocrats to discuss more about the latest equipments & technologies. The fair will be an ideal platform for the Indian and overseas companies to show case their state-of-art equipments, technologies and services to the vibrant industries, so as to get exposed the new business opportunities and quick solution to solve their productivity and quality related issues. **FOUNDRY TECH 2011** will be held from 14<sup>th</sup> to 16<sup>th</sup> Oct 2011 at Vijaya Fair Grounds, Coimbatore, India.

#### INVITATION TO ADVERTISERS & SPONSORS

All the technical papers accepted for presentation will be brought out as a compendium. It would be an ideal media for publishing advertisements by organisation in the foundry arena, as the proceedings will have a wide reach among the foundry professionals.

#### PARTICIPANTS

Eminent speakers from IISc, BEML, IITs, WRI, BHEL, MAGMA Engineering Asia Pacific PTE Ltd Maruti Suzuki, Cummins India, Tata Motors, Mahindra & Mahindra have been invited to be on the panel. All interested delegates are requested to take note of this and participate in the programme as per details above & make it a lively session with your active participation. We now look forward to welcoming you to the session.

The professionals, experts, scholars, research scientists will be attending the conference from all over the world. Also, a number of industries involved in foundry technology and allied areas will take part in the exhibition, from all over the world.

#### MODE OF PAYMENT

All remittances should be made through bank draft drawn in favour of "**Foundry For Future 2011**" payable at Tiruchirappalli, India. Remittances by foreign delegates / organisations, should be made in equivalent convertible foreign currency by DD as above. Information about telegraphic transfer are given in the forms.

#### REGISTRATION FORMS

The application forms for registration as delegates, advertisements as well as sponsorships are enclosed. We request you to forward the duly filled-in application with the demand draft for fees to the convenor, at the earliest.

#### ORGANISERS

**The Indian Institute of Metals, Tiruchirappalli Chapter**

Ever since its inception in 1981, has been promoting the cause of materials by regularly organising technical lectures, seminars, workshops, conferences, training programmes, quiz programmes, etc.,

The chapter has been awarded the “Best Chapter in the country” for eleven times by the National professional body, IIM. It has also achieved the “Nil Defaulters award” for four consecutive years. The seminars and workshops organised by this chapter have been well received by all with overwhelming response. For the past twenty years it is conducting quiz on metals & materials (TMAQ) for the student community.

#### Trade India Fairs & Exhibition Private Ltd. (TIFE)

One of the premier organisation in India, focusing on organising trade fairs, exhibitions, seminars, outsourcing campaigns, publications and of course dedicated to serve for the social and economical growth.

TIFE’s motto is “Providing Effective platform for business promotion through exchange of knowledge and showcasing innovative products and ideas through conducting Trade Fairs & Exhibitions.”

#### ABOUT COIMBATORE

Coimbatore is the second largest city in Tamil Nadu. As it is exposed to the Palghat gap of Western Ghats, it enjoys a salubrious climate. It is rightly called the “Manchester of South India”. Coimbatore is also known for the manufacture of motor pumps, automobile components etc., The city is also

known for its handloom products. This has attracted a large number of textile mills and foundries to this region. There are about 4500 foundries and allied industries in and around Coimbatore. Coimbatore being a business and manufacturing hub is well connected by air, rail and road to major business centres like Chennai, Cochin, Bangalore, Hyderabad, Mumbai, Delhi, Madurai, Tiruchirappalli and overseas viz. Colombo, Sharjah, Singapore.

Coimbatore has a number of three star, first class luxurious hotels and budget hotels. The legendary hospitality of Coimbatore with delicious South & North Indian dishes is sure to make your stay comfortable and one can enjoy a home away from home. There are many tourist spots in Coimbatore and it is surrounded by many nearby tourist centres. The places of interest are:

Annamalai Wildlife Sanctuary, Amaravathy Reservoir, Avanashi (40 KM), Bannari (83 KM), Bhavani (121 KM), Coonoor (71 KM), Kotagiri (105 KM), Mettupalayam (52 KM), Monkey falls, Palani (140 KM), Parambikulam-Aliyar, Pollachi (40 KM), Sengupathi Waterfalls, Siruvani Waterfalls and dam (37 KM), Tiruppur (50 KM), Thirumoorthy Temple, Udagamandalam or Ooty (90 KM), Valparai (102 KM), etc.

#### DELEGATE FEE

Members of IIM from India	₹	4000
Non-Members		5000
Faculty Members	₹	1000
Students	₹	600
Delegates <u>from</u> abroad	US\$	150
Accompanying Spouse	₹	1000

#### SPONSORSHIP

Type	Amount in ₹	Benefits
Delegate Bag	200000	Regn. of 6 delegates
Welcome Tea	20000	Regn. of 2 delegates
Lunch Day 1	150000	Regn. of 6 delegates
Lunch Day 2	120000	Regn. of 5 delegates
Lunch Day 3	100000	Regn. of 4 delegates
Pad & Pen	20000	Regn. of 1 delegate
Evening Tea Day 1	10000	Regn. of 1 delegate
Morning Tea Day 2	10000	Regn. of 1 delegate
Evening Tea Day 2	10000	Regn. of 1 delegate
Morning Tea Day 3	10000	Regn. of 1 delegate

FOR  
DETAILS  
CONTACT

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