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THE INSTITUTE OF INDIAN FOUNDRYMEN

IIF FOUNDRY NEWS BULLETIN

Let's Cast It Together

Mission – Zero Defect

Web-link to 67th IFC Promo Video:
https://www.youtube.com/watch?v=PHDwI2u2tTM
Official Website: http://www.ifcindia.net/

Bulletin Supported By:-

THE INSTITUTE OF INDIAN FOUNDRYMEN FOUNDRY INFORMATICS CENTER
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Workshop for Production of S G Iron and Best Practices for Induction Furnace

IIF - Rajkot Chapter is conducting one day workshop for production of S G iron and best practices for induction furnace in Rajkot as per the following details:-

DATE: 24-2-2018, Saturday
TIME: 4:00 pm to 7:00 pm
VENUE: Rajkot Engineering Association, Board Room, Rajkot
Programme is followed by dinner

The following dignitaries will present their views in this workshop.

(1) Shri Dhananjay Upadhyay:- Tathastu Consultancy, Rajkot
Subject: Production of S. G. Iron

(2) Shri Bharatbhai Davda:- Project Leader, EDI of India, Rajkot
Subject: Best practices for induction furnace

We solicit your participation in this important workshop being organized by IIF Rajkot chapter & request you to register ASAP by writing to rajkot@indianfoundry.org .

Seminar on "Aluminium Casting - The Future Ahead"

IIF- GMC Chapter is conducting one Technical Seminar on "Aluminium Casting - The Future Ahead" as per the following details:-

Date : Friday, 16th March 2018
Venue : Grand Peninsula , Sakinaka, Mumbai

Registration Fee
For IIF Members - Rs. 750 Inclusive of GST
For Non – members - Rs. 1250 Inclusive of GST

For registrations, please write to iif.mumbai@gmail.com

Report on Guest lecture on Foundry Simulation

A Guest lecture on Foundry Simulation conducted on 23rd January 2018, at Sakthi Polytechnic College, Coimbatore. Around 100 Students participated in the Guest Lecture.

Dr. K. R. MUTHUSWAMY, Principal, Sakthi Polytechnic College, welcomed and inaugurated the technical secession, and also introduced the Speaker. Mr. P. Suresh kumar, CEO, AGNA INC,Coimbatore.

Outline of the program:

Simulation software provides a complete solution for casting design and optimization.

- Part Analysis (Design for Manufacture): Import a part model from any CAD program, and check its features (thickness, cored holes) for manufacturability.
- Methods Design (Mold layout, Feeders, Gating): Select the number of cavities, position of feeders and gating channels. The software automatically designs, models, and generates the complete mold layout.
- Quick Simulation (Mold Filling and Casting Solidification): Verify the methods design by checking for possible defects like mold erosion, filling time, and shrinkage porosity through casting simulation.

• Costing and Report: Check the yield, estimate tooling and other costs, and generate a complete report of the methods design with an image of the casting.

Mr. Senthilkumar, M.E, Senior Lecture, Department of Metallurgy, Sakthi Polytechnic College presented the vote of thanks.

Report on Technical Seminar on "Cast an Innovation.. Make it Together"

IIF Nagpur chapter organized a two days seminar on 18th and 19th February at Hotel Sayaji Raipur which was attended by large number of foundrymen from Raipur and Bhilai Area. Theme of the Seminar was 'Cast an innovation, Make it together". Program started with inaugural speech by IIF Nagpur Chairperson Ms. Anuja Sharma. Ms Sangeeta Shah MD (Simplex Casting) was the Chief Guest and Mr. Mahesh Kumar CEO (Voslloh Beekay Casting Ltd, Bhilai) was the guest of honour.

Topics of speakers

1. Mr Vivek Uike - Shrinkage control and prevention in ductile iron castings
2. Mr Sushil Sharma - Reduce cost of operation by Innovative Coatings"
3. Mr Sandeep Kulkarni - Innovative approach in melting practices"
4. Mr N Visvanathan - Clean , Green and zero waste discharge Foundry

Mr Saurabh Mohta , Mr Rajeev Kumar , Mr Gautam Mukhophadhya and Mr R.G. Parangpe were moderators for respective sessions. Each session ended with questions asked from the audiences, which was very well answered by every speakers. First day program ended with musical evening followed by dinner.

On 19th February delegates from IIF Nagpur Chapter visited Vossloh Beekay Casting Ltd Bhilai. All processes related to pattern making , Melting , Machining explained by Vossloh Team.

Approx Major Raw Material Prices

ITEMS	Price 09.02.2018 Rs./Kg (Basic Price Excl GST)	Price 16.02.2018 Rs./Kg (Basic Price Excl GST)
Pig Iron (Mum)	34.5	34.5
Melting Steel (Mum)	29.5	30.5
CRCA Scrap	30.5	32.0
Copper Ingot	456	460
Aluminum Ingot	161	157

News Headlines..

- Indian strong demand force Ferrous scrap price tag
- Indian Ferro Silicon producers lower offers
- India's major Brass, Copper Scrap prices fall in line with MCX Copper
- Indian Ferrous scrap prices Rise
- Italian pig iron prices fall, but recovery imminent
- North American Scrap Metal Prices Rose Moderately on Index
- US aluminium scrap prices march higher
- Chinese aluminum ingots inventory increase in Q1 2018
- Chinese Scrap Metal Prices Witnessed No Change on Index
- Global Ferrous Scrap Prices hold firm amid strong demand

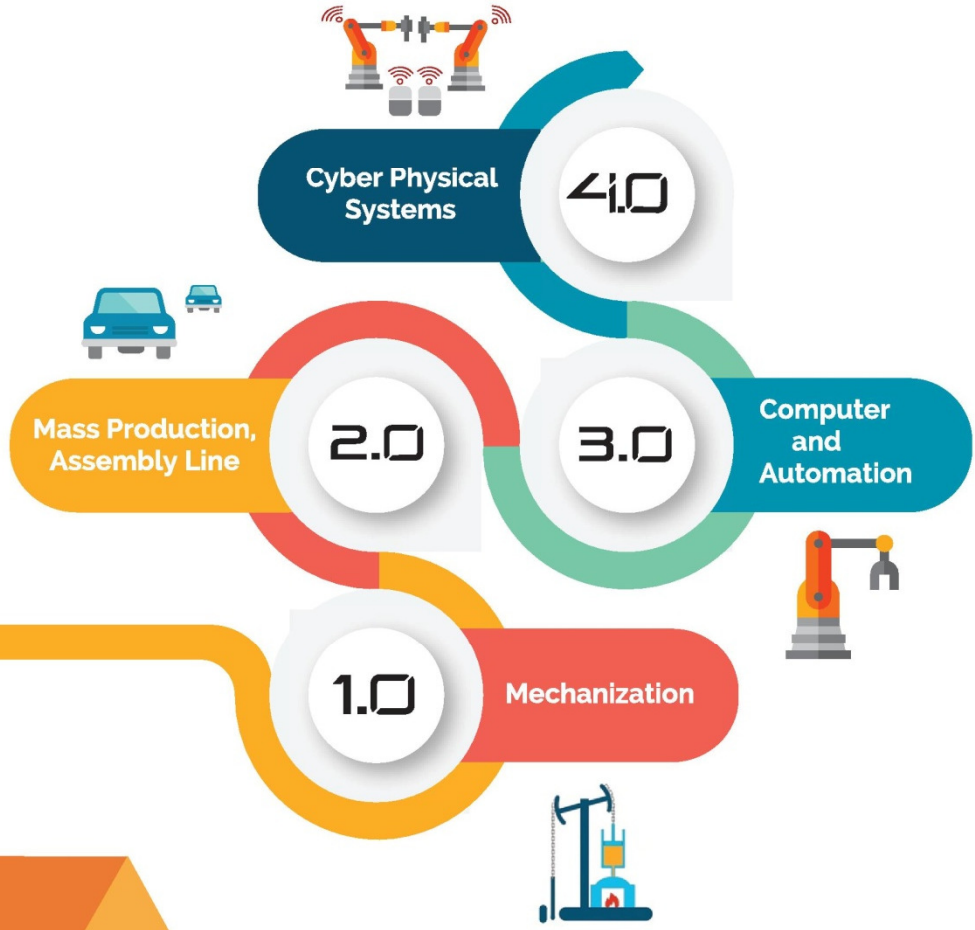
THE INSTITUTE OF INDIAN FOUNDRYMEN
SOUTHERN REGION | COIMBATORE CHAPTER

SOURECON 2018

28th Southern Regional Conference

foundry 4.0

APPLICATIONS & IMPLICATIONS



10 March 2018, Fire Bird Institute, Coimbatore

For more details, please refer to the attached Brochure

VISION 2025

Predict the challenges..
Cast the future..

IIF Western Regional Conference

Wescon

2018 Kolhapur

Orgnised by

THE INSTITUTE OF INDIAN FOUNDRYMEN
KOLHAPUR CHAPTER

Supported by IIF Western Region

Conference Topics & Highlights

- Role of Management in SME's growth over next decade
- Make in India : An opportunity or a challenge for SME's
- Green Initiatives for Sustainability and Value Creation
- Impact of Disruptive changes on Foundry Industry
- Creating Innovation for greater value
- Leadership approach
- Role of Sales & Marketing in today's scenario
- Exclusive conference on new trends in Foundry Technology
- Eminent & Renowned Speakers
- Panel discussion on each day
- Best Networking Platform
- Gala Dinner Night
- Works Visit on 3rd day

Venue: Hotel SAYAJI
Kawala Naka, Kolhapur

15 SUN 16 MON
April 2018

Delegates Registration Fee :

IIF Members : Rs. 2,500/-
Non IIF Members : Rs. 3,500/-

Cheque in favor of 'The Institute of Indian Foundrymen' + GST

For Registration please contact:
Email - kolhapur@indianfoundry.org
Mr.Rajesh Somani : 09822996040
Mr.Suresh Chougule : 09371271293
Mr.Sumeet Chougule : 09922722255
Mr.Abhijeet Naik : 09673285534

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In the News..

Spark Minda opens third Die Casting Plant in Pune

The Spark Minda, Ashok Minda Group has inaugurated its new state-of-the-art die casting manufacturing plant at Chakan, Pune by its flagship company Minda Corporation. The Group's third die casting facility is exclusively for aluminium gravity die casting and low pressure die casting with machining in Pune for two- and four-wheelers.

Minda Corporation has made an initial investment of Rs 100 crore in the new unit. The company already produces aluminium and zinc die casting machine components at its Greater Noida and Pune facilities for turbocharger systems, braking systems, handle mounting components and engine mounting components.

The new plant, which is equipped with a Competency Centre for Excellence for Gravity Die Casting and Low Pressure Die Casting, in Pune will cater to both the domestic market and exports. The Group has already received significant export orders worth more than Rs 100 crore of annual business from the European passenger car market.

Ashok Minda, Group CEO, Spark Minda, Ashok Minda Group (pictured above) said, "Spark Minda follows a strict principle of quality and customer focus. We always cater in the best possible manner for our products and technological demands. Establishment of our new plant at Pune will enable the Group to cater to the rising demand for die casting components for Indian and global automotive customers."

N K Taneja, Group chief marketing officer, said, "The automotive industry is undergoing a huge overhaul with rising technological advancements where we see combined demand coming from national and international markets. Spark Minda has been a strong player in gravity die casting. The new plant will develop and integrate products with ourrecently inaugurated Technical Centre (Spark Minda Technical Centre - SMIT) located at Chakan, Pune."

Source: Ashok Minda Group

Govt takes U-turn on policy for EVs; Nitin Gadkari says action plan enough

The government was planning an EV policy with the aim of 100 per cent electric mobility by 2030

In a U-turn on its ambitious electric vehicle (EV) policy, Union Transport Minister Nitin Gadkari on Thursday said an action plan had been put in place for the proposal, which would encourage manufacturing and use of EVs.

"There is no need for an EV policy. An action plan has been prepared. Each ministry has started implementing the action plan," NITI Aayog Chief Executive Officer Amitabh Kant said, while addressing the media after Gadkari inaugurated two electric charging stations on the NITI Aayog's premises. Gadkari, who has been vocal in his preference for EVs over conventional ones that run on petrol and diesel, said since the action plan for such vehicles was ready, the need for a policy did not arise. Gadkari's latest position is at variance with his earlier statement that an EV policy was awaiting the clearance of the Cabinet.

The government was planning an EV policy with the aim of 100 per cent electric mobility by 2030. However, the automobile industry has in the past few months raised concerns over the execution of such a plan.

In an interview to Business Standard earlier this month, Gadkari had said, "We want electric, ethanol, biodiesel, and methanol buses to ply in the country. It will help address the problem of air pollution affecting major cities. We want to adopt the Transport for London (TfL) model. Nine operators in London and the corporation bring out a tender on the basis of a per kilometre charge."

Gadkari had emphasised that the government was not against the use of petrol and diesel cars but at the same time wanted to bring in new technology for sustainable transportation. "Accelerated adoption of electric and shared vehicles can save $60 billion in diesel and petrol costs, while cutting down as much as 1 gigatonne of carbon emissions by 2030," government think tank NITI Aayog has said in a joint report with the Rock Mountain Institute.

India may have a new industrial policy in two months

Come April-May, India may have a new industrial policy. The draft of the new policy — the third major intervention after the industrial policies of 1956 and 1991 — has so far been shared only with a limited audience: select captains of industry, economists, think tanks and policymakers.

If the Department of Industrial Policy and Promotion (DIPP), the nodal agency behind the new initiative, has its way, consultations with industry and interministerial deliberations will be completed by next month, with the final draft being sent for the cabinet's approval tentatively in April.

If the government officials in the know are to be believed, the key thrust of the new policy, to be unveiled, incidentally, in the run-up to 2019 Lok Sabha elections, will be on finding ways to gainfully employ over 1.2 crore youth who enter the workforce every year, apart from checking future job losses that may arise due to Industry 4.0, the global phenomenon of automation in manufacturing. It may eventually take away India's advantages due to its cheap labour force. The new policy will subsume the existing national manufacturing policy of 2011.

ET Magazine spoke to two officials in the Ministry of Commerce and Industry and a number of industry experts privy to the consultation process to figure out the policy's possible salient features. First, the policy is likely to introduce self-certification and third-party certification to reduce G2B (government to business) interfaces. A single ID is proposed for all G2B services. The idea, according to the officials, is to strengthen ease of doing business and reduce compliance costs for the industry. This, in turn, will boost private investments and entrepreneurship, thereby creating more jobs.

Second, the new industrial policy is expected to embed provisions that will give weightage to the quality of foreign direct investment (FDI), with a preference to investments that are expected to create local value additions and, thus, jobs. Third, the policy may have provisions for rationalisation of electricity cost for industries; the exact modalities will be finalised after interministerial consultations.

Fourth, the policy may incentivise research and development with the objective of positioning India as a test bed for emerging technologies and creating an environment for ease of innovation. The policy is likely to have provisions under which the government will share risks with small and medium entrepreneurs by co-investing in research. Also, it may encourage free movement of researchers between public sector research bodies and industries, apart from relaxing restrictions on non-resident Indians (NRIs) in certain research areas.

Fifth, there could be emphasis on "M" in the SME (small and medium enterprises) sector. The government may help in the branding of products, mainly produced by mid-sized firms. Finally, there may be certain provisions to empower the Export-Import (EXIM) Bank of India to raise global capital for Indian firms.

But the draft industrial policy has a few provisions that may create controversies and provide ammunition to the opposition parties ahead of elections. For example, the draft policy envisages revisiting the categories of employment under the existing labour laws to create flexibility.

The draft policy, as it exists now, supports extending the provisions of permitting fixed-term employment, as against permanent workforce, to all sectors. Fixed-term employment was introduced in apparel manufacturing industries under the Industrial Employment (Standing Order) Act vide notification dated October 7, 2016, of the Ministry of Labour and Employment.

The draft industrial policy has provisions on how to implement it once it gets the approval of the cabinet. An implementation division under a joint secretary-level officer will be housed inside the DIPP, with a steering panel, comprising secretaries of the Ministry of Finance, Department of Heavy Industries, Ministry of Micro, Small and Medium Enterprises (MSME) and the Ministry of Food Processing Industries etc, overseeing the division.

Proposal to scrap 15 years old vehicles almost finalized

A new policy to scrap vehicles that are more than 15 years old almost finalised with NITI Aayog, soon this policy will be introduced in India. Policy aims at curbing rising vehicular pollution in the country.India is bound to become the hub for automobile industry and the prices were bound to be cheaper as plastic, rubber, aluminium and copper - all generated from scrap will be used for autopart generation besides other things, Union Minister Nitin Gadkari said.

The PMO is keen on the proposal and once it is implemented, pollution would be checked considerably as 65 per cent of the pollution is caused by heavy vehicles that are more than 15 years old.

Earlier, the Road, Transport and Highways Ministry had sent a concept note on Voluntary Vehicle Fleet Modernisation Programme (V-VMP) to the Committee of Secretaries on creating an ecosystem for voluntary scrapping and replacement of old polluting vehicles.

As per an earlier proposal, a relief of about Rs 5 lakh was to be provided to people who purchase new commercial vehicle of about Rs 15 lakh, if they surrender their over 15-year old commercial vehicles. Once the proposal is accepted it is bound to result in Rs 10,000 crore boost in tax revenue as the automobile sector will benefit from it, Union Minister said.

India to impose 20% export duty on Graphite Electrodes

The Indian government is to impose a 20% export duty on graphite electrodes from April 1, according to the International Rebar Producers & Exporters Association (Irepas). The Indian government has included a provision to change customs tariffs for certain products including electrodes in its 2018 finance bill, which is currently being debated and is expected to be put to a vote for approval by the end of March.

The provision was included in the bill in an effort to "improve domestic [electrode] supplies and promote the electric-arc furnace (EAF) route of steelmaking in the country," Irepas said in its latest report.

Indian exports of graphite electrodes increased 49% year-on-year in January-October 2017, rising to 64,379 tonnes, according to statistics collated by India's Directorate General of Foreign Trade.

Mahindra Group to invest Rs 9 bn more into electric vehicle venture

The current investment plan aims to take the capacity to 5,000 units a month

Despite policy the lingering uncertainties, the Mahindra Group on Monday announced a fresh Rs 9 billion investment in electric vehicles (EVs) over the next four years, which should ramp up its first installed capacity to 5,000 units a month.

"We have already invested Rs 6 billion in EVs over the past five-six years and have announced decided to invest Rs 4 billion in Karnataka and Rs 5 billion in Maharashtra over the next four-five years. This will be used for capacity, technology and products," managing director Pawan Goenka told reporters.

"We are not waiting for any policy to move forward. To be a pioneer, you have to create the road and we have to move forward," he said on the sidelines of the ongoing Maharashtra investor summit.

Goenka, however, said there is a need for the prevailing subsidies on EVs to continue for longer to ensure growth of this industry. Once it touches a critical mass of say 2units a month, which he expects by 2022, it will be on an equal footing with the conventional internal combustion engine-based vehicles, he said.

At present, Mahindra has a capacity of 400 units a month, which will go up to 1,500, including three-wheelers by this September, he said, adding by next December they should be capable of rolling out 4,000 units.

The current investment plan aims to take the capacity to 5,000 units a month and is based on certain assumptions like the subsidies continuing, Goenka said.

He said the company will be doing all parts of the EV play, except batteries, which require greater volumes for local manufacturing and so they will have to be imported.

Goenka said at the current demand for EVs is so low at under 300 units a month, but said he is confident of better days and that the additional investments as "leap of faith". In what has been termed as a volte-face by the government, Union roads minister Nitin Gadkari had last week said there was no need for a separate policy on EVs. The minister had earlier said that such a move was in the works.

Following this, an industry lobby is reportedly meeting Union heavy industries minister Anant Geete and Niti Aayog chief executive, Amitabh Kant. Goenka, however, said there has not been any "u-turn" by the government, as there are already beneficial moves like differentiated GST treatment and EV policies by states like Maharashtra which is "enough to get the industry going".

He was, however, not so supportive of government's earlier plan of turning 100 per cent electric by 2030, terming it is "too ambitious" and said there is a need to "walk more before we start running". The auto industry veteran said we should be satisfied even if we achieve 30 per cent EV share by 2030, and enlisted global adoption experiences to buttress his point.

EVs contribute for only 0.04 per cent of the domestic car market now compared to 2 per cent in China and 32 per cent in Norway, he said, adding both these countries had invested massively over the past decade to achieve these numbers. Pointing out that lack of charging stations is the biggest impediment for EV-makers and said we should be first focusing on the metros having troubles around pollution before taking it nationally.

Transport aggregators, including bus transport utilities, radio taxi operators like Uber and Ola, will be the first ones to adopt EVs, Goenka said.

He, however, termed the EV space as a big opportunity and asked everybody to focus on it because of the advantages of zero pollution and zero fuel imports.

He also sought to placate the concerns of auto ancillaries, saying the industry will continue to grow at 4-5 per cent even in the decade to the 2030s which will give such companies sufficient business.

Meanwhile, addressing the summit, Tata Power executive director Ashish Khanna said technology has not changed so much on the solar front, which may justify "grid parity" that is seen in new bidding at rates as low as Rs 2.45 per unit.

International News..

New Castalite 3D Printing Resin from Tethon3D can Cast and Shape Molten Metal

Tethon3D, a manufacturer of ceramic powders and photocurable materials has launched its new Castalite Investment Casting resin for SLA and DLP 3D printing.

Castalite, like other resins, has applications in advanced manufacturing, jewellery and engineering. However, thanks to its physical qualities, it can also be used to 3D print ceramic shell molds for metal casting.

A resin for metal casting

Chemically, Castalite has high heat and thermal shock tolerances, giving it the necessary qualities to cast metals such as bronze, gold, silver, and aluminium. 3D printed molds require a sprue, gate and casting cups are functional. If these features are incorporated into the mold design, it will be ready to receive molten metal.

Once a mold has been 3D printed using Castalite resin, it must then be fired slowly between 300 and 1,100 degrees Fahrenheit (150 to 595 degrees Celsius) to allow excess gases to escape and prevent it cracking. Using Castalite to directly 3D print a mold eliminates the need for the wax models used in the traditional lost wax casting. This reduction in material ultimately reduces the cost of metal casting and makes it faster.

Nebraska-based Tethon3D has extensively collaborated with practitioners who produce ceramic artworks. It released Vitrolite, a glass ceramic polymer resin for SLA printing, in 2017.

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Tethon3D's Porcelite material was nominated for a 2017 3D Printing Industry Award in the "3D printing material of the year" category.

"Recent improvements in 3D printer technology provide higher resolution details in the casted metal part and faster print times," said Linder. "Most printers can print at 25-micron print layers and Castalite demonstrates excellent resolution at that level."

Government Schemes

Niryat Bandhu Scheme – Mentoring Entrepreneurs for Export

The scheme facilitates entrepreneurs wishing to enter exports through mentoring, counseling & info sessions through the active network of 36 DGFT offices spread across the country.

The scheme was announced by the Government on 13th October, 2011 for mentoring first generation entrepreneurs. The scheme was incorporated at paragraph 2.51 of the Foreign Trade Policy 2009-14.

The officer (Niryat Bandhu) would primarily mentor the interested individuals in the arena of international business.

Such hand holding by the officers of DGFT would help the new exporters and importers by leveraging the knowledge base of the officers and by providing timely and appropriate guidance.

For more information on the scheme, please click the link below

http://dgftcom.nic.in/exim/2000/nbandhu/indexbandhu.htm

Notifications/ Circulars

Ministry of Finance,
Dept. of Revenue, CBEC

Notification No. 13/2018 - Customs (N.T.), dt. 15.02.2018

Exchange Rates Notification No.11/2018-Custom(NT) dated 1.2.2018

http://www.cbec.gov.in/resources//htdocs-cbec/customs/cs-act/notifications/notfns-2018/cs-nt2018/csnt13-2018.pdf

Ministry of Commerce & Industry, DGFT

Public Notice 62/2015-20, dt. 16-02-2018

Directives for processing of applicatin for MEIS claims under Foreign Trade Policy 2015-20

http://dgft.gov.in/Exim/2000/PN/PN17/PN%2062%20english.pdf

Upcoming Indian Events

ALUCAST PARTNER IN PROGRESS FOR ALUMINIUM AND DIE CASTING INDUSTRY	**ALUCAST-2018** **06 - 08 Dec., 2018** **Delhi/ NCR, India** http://www.alucast2016.com/
67th INDIAN FOUNDRY CONGRESS & IFEX 18th TO 20th JANUARY, 2019	**67th Indian Foundry Congress** **18-20 January 2019** **India Expo Mart, Gr. Noida**

Upcoming International Events

indo metal international metal & steel trade fair for southeast asia	**INDOMETAL** **From: 17 - 19 OCT 2018 | JI EXPO | JAKARTA** http://www.indometal.net/
MC	**Metal + Metallurgy China** **16-19 May, 2018** **China International Exhibition Center** **Beijing** http://www.mm-china.com/En/

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