

 **3<sup>RD</sup> SMART  
MANUFACTURING  
SUMMIT 2017**

Creating Champions of the *New*

15 November 2017, Hotel Le Meridien, Janpath, New Delhi

**Programme**

0900 – 1000 hrs | Registration

1000 – 1100 hrs | Inaugural Session

1000 – 1005 hrs	<b>Welcome Address</b>	<b>Sunil Mathur</b> , Chairman, CII Smart Manufacturing Council
1005 – 1010 hrs	<b>Address</b>	<b>Chandrajit Banerjee</b> , Director General, CII
1010 – 1020 hrs	<b>Special Address</b>	<b>Shobana Kamineni</b> , President, CII
1020 – 1040 hrs	<b>Keynote Address</b>	<b>Dr Jan Mrosik</b> , CEO, Digital Factories, Siemens AG
1040 – 1055 hrs	<b>Address by Chief Guest</b>	<b>Amitabh Kant</b> , CEO, NITI Aayog
1055 – 1100 hrs	<b>Vote of thanks</b>	<b>Sunil Mathur</b>



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**1130 – 1145 hrs | Context Setting Presentation**

*Background presentation on Smart manufacturing in the context of the Indian manufacturing ecology. This session will give a background to the subject, explore the current state of readiness in the country, scope for adoption and requirements for enabling the smart transformation of Indian industry.*

1130 – 1145 hrs     **Address**     **Sunil Mathur**, Chairman, CII Smart Manufacturing Council and Managing Director & CEO, Siemens Ltd., India

**1145 – 1245 hrs | Technology perspectives for creating champions of the new**

*Be it artificial intelligence, robotics or augmented reality, all have significant potential to redefine manufacturing. This session will help industry understand platforms, technologies, products, processes and applications on the horizon that have the potential to transform future production systems and create champions of the new.*

1145 – 1200 hrs     **The future of making things**

*The changing economics of production, shifts in consumer demand and "smart" products are pushing manufacturers to explore radically new ways of creating and capturing value. The presentation will showcase how "smart" manufacturers are harnessing the power of data and cloud computing to bring to market products that were simply not possible ever before.*

**Pradeep Nair**, Managing Director, Autodesk

1200 – 1215 hrs     **Industry 4.0 in discrete manufacturing – A perspective**

*The presentation will outline Industry 4.0, Digitalization and Smart Manufacturing solutions for Discrete Manufacturing in India and will focus on challenges, creative solutions evolved and successes seen, along with a roadmap of where these trends are headed.*

**Chandrashekhar Bharathi**, Managing Director, Ace Micromatic

1215 – 1230 hrs     **The digitized supply-chain**

*Digitization of supply chain is the key to unlocking value, leading to average cost optimizations of >20%. All this can be achieved by improved operational efficiency, inventory reduction, 100% compliance and reduced conflict and mismatch. Additionally, almost 90% of the data collected is discarded before reaching a CXO. This presentation will showcase of digitizing a supply chain can bring forth immense insights to take better decisions, forecast supply and analyze spend and pilferage.*

**Rahul Garg**, Founder & CEO, Moglix

1230 – 1245 hrs     **Driving innovation**

*Customers expect products that are more customized to their individual needs. The Internet too provides buyers with more options than ever before; in-order to thrive, manufacturers must deliver excellence. Industry must accelerate product introductions, create more agile shop floors, and improve order fulfillment through intelligent connected operations. This session will explore emerging trends in manufacturing that will help empower manufacturers to increase their speed of doing business and deliver excellence every*

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time.

**Vishnu Bhavaraju**, Industry Market Development Manager, Microsoft

**1245 – 1305 hrs | Technical Paper Presentations**

*A call for papers was made for the CII Smart Manufacturing Summit from various companies and academic institutions on the topic of smart manufacturing i.e. use of sensors, wearable technologies, automation, horizontal and vertical integration etc in manufacturing were invited. Following papers were selected for presentation at this Session.*

1245 – 1255 hrs

**Smart Jackets: Temperature Varying Jacket Using Peltier Module**

*The presentation will talk about how a jacket is designed to produce artificial weather for the wearer. The jacket is inculcated with circuitry with the help of which the temperature inside can be varied between 5-50 degree. A 'Peltier' module has been used for heating and cooling purposes. There is an LCD display which displays the temperature inside and outside of the jacket to make it easier for the wearer to see and sense the temperature variation. The jacket can thus be used to save people from the adverse effect of weather.*

**Phagna Aishwarya, Prajapati Palak**

1255 – 1305 hrs

**SMART Electric Motors for Industry 4.0**

*This paper introduces SMART Electric Motors, the future of Electric Motors. A SMART Motor analyzes its own health and predicts failures much in advance, which allows corrective actions to be taken to avoid premature equipment & process breakdowns in the industry. SMART motors coupled with various equipment also act as a pattern learning device to gather the, much needed, hidden productivity and efficiency related information*

**Swapnil Dol, Raunak Bhinge**



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## 1400 – 1530 hrs | Boardroom strategies for Smart Manufacturing

*This session will showcase strategies used by companies to become smart, solutions that were implemented, change management imperatives and benefits that have accrued with an objective to help create a blueprint for Manufacturing establishments to adopt Smart Solutions.*

- 1400 – 1415 hrs     **Smart Manufacturing in the Process Industry**
- Embracing of Smart Manufacturing by the chemical industry is likely to have a ripple effect on all manufacturing and allied industries. The presentation will showcase how tenets of technology, innovation, sustainability and skill are shaping the processes industry.*
- Sudhir Shenoy**, CEO, DOW
- 1415 – 1430 hrs     **Industry 4.0 to Smart Manufacturing**
- Industry 4.0 positively impacts people, quality, delivery and cost. Connecting people in combination with machine-to-machine communication throughout the entire value chain enables plants to be flexible, on-demand production of more and more individualized products. Industry 4.0 is the way towards Smart Manufacturing and is an enabler for Business Excellence.*
- Dr Michael Loh**, Vice President and Plant Head, Robert Bosch
- 1430 – 1445 hrs     **Focus Engineering**
- Dr Mandar Deo**, Vice President, Power Systems, Cummins India Ltd
- 1445 – 1500 hrs     **Early adoption of Industry 4.0 – Conscious Factory Journey at Nokia Networks**
- Nokia has adopted Industry 4.0 and IoT initiatives well in advance as their core strategy for manufacturing operations – ‘Nokia’s Conscious Factory approach’. Having piloted several IoT and Automation use cases in its own factories and having witnessed the benefits, Nokia is fully convinced with their early involvement and experiments in this field, that Industry 4.0 and IoT will be a game changer in near future. The presentation will walk the audience through Nokia’s experience of the Conscious Factory Journey.*
- Ramakrishna Patra**, Head, Manufacturing Solutions & IOT Cluster, Nokia
- 1500 – 1515 hrs     **Focus Automotive**
- Chegu Dhanumjaya**, Vice President, Production Engineering, Maruti Suzuki India Ltd
- 1515 – 1530 hrs     **Adoption of Industry 4.0 in India – Opportunities & Challenges**
- Dr Chandan Chowdhury**, Associate Dean and Professor for Operations Management and Information System, ISB

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**1530 – 1630 hrs | Valedictory Session: Takeaways for India**

*This session will bring together various stakeholders to distill the various policy imperatives required for creating this eco-system. This discussion will focus on –*

- *How eco-system can support the promotion and adoption of smart manufacturing?*
- *How to facilitate - process transformation, people unlearning and relearning, technology adoption?*
- *How industry and government can partner to create enabling eco-system?*

1530 – 1630 hrs

**Panel Discussion on imperatives  
for India**

**Moderated by**  
**Pranjal Sharma**, Author, Kranti  
Nation: India and The Fourth  
Industrial Revolution

**Panelists**

**Dr Seema Gaur**, Senior Economic Advisor, Ministry of  
Information and Electronics Technology

**Dr Ganesh Natarajan**, Executive Chairman and Founder, 5F  
World

**Dr Sunil Jha**, Professor, Department of Mechanical Engineering,  
IIT Delhi and Head, CEFC I4.0, Delhi

**Gautam Dutta**, Director, Digital Factory Division, Siemens India

**Dr Purnendu Sinha**, Group Technology Office, Tata Sons

--End of programme--