

22nd Cambridge International Manufacturing Symposium

Supply chain transformation enabled by advanced technologies

implications for producers, consumers and society

27 - 28 September 2018, Møller Centre, Cambridge



The annual Cambridge International Manufacturing Symposium is the chance to hear from world-leading business figures and thinkers on the challenges facing modern manufacturing. It is a unique event that brings together senior industrialists and leading academics to share approaches and experiences in this strategic domain, covering the following key themes:

- Supply chain transformation enabled by advanced technologies
- Digital supply chain design, analysis and operation
- Sustainability, circular economy and industrial ecosystems
- Collaborative supply chain models, crowdsourcing and the sharing economy
- Risk and resilience of global supply networks
- Digitally-enabled consumer-centric supply chains
- Global manufacturing and emerging countries: repositioning of MNCs
- Reshoring and Distributed Manufacturing: new paradigms
- Smart cities, urbanisation and eCommerce

INDUSTRIAL DAY - 27 September 2018

Confirmed speakers include:



Edwin de Boer
Senior Director Supply Chain Operations
Cisco



Chris Fielden
Group Supply Chain Director
Innocent



John Fleming
Former Executive Vice President
Global Manufacturing and Labour Affairs
Ford



Alain Leroy
SVP, Global Supply Chain
Strategy & Transformation
Schneider Electric



Juergen Maier
CEO
Siemens UK



Michelle Shi-Verdaasdonk
Global Manufacturing Director
Philips Lighting



Jon-Paul Sherlock
Global Technology Strategy Director
AstraZeneca

ACADEMIC RESEARCH DAY - 28 September 2018

Confirmed speakers include:



Dr. Sandeep Kapur
Punjab Agricultural University



Professor Jan Olhager
Lund University



Professor Fabrizio Salvador
IE Business School

The Symposium will address latest thinking in the following themes, with the first day having an industrial focus and day two an academic research focus:

► **Supply chain transformation enabled by advanced technologies**

This track provides insights on how leading firms are adopting digital technologies and a digital attitude to supporting supply chain transformation. We explore how Big Data, Industrial Internet of Things and cloud computing will combine with alternative production processes such as continuous, additive and flexible automation as well as the use of driverless vehicles and drones.

► **Digital supply chain design, analysis and operation**

The emergence of digital technologies is driving innovations, in terms of 'products' and 'services' and new supply chain models. This requires greater visibility, alignment and integration across an increasingly complex network of multiple partners, to deliver better 'service outcomes' and 'customer experience'. In this track we examine the implications of digitalisation on the design of future service supply networks.

► **Sustainability, circular economy and industrial ecosystems**

Re-using, repairing, refurbishing and recycling existing materials and products opens up opportunities for traditional 'waste' to become a 'resource'. In response, how should firms best reconfigure their international manufacturing and supply networks from a triple bottom line perspective?

► **Collaborative supply chain models, crowdsourcing and the sharing economy**

The emergence of major business-to-business players in the sharing economy is enabling businesses to share access to everything from collaborative capabilities to resources in the supply chain. We explore how sharing resources streamlines companies, enabling them to operate faster, and react quickly to market changes in a more efficient and effective manner.

► **Risk and resilience of global supply networks**

Many complex global supply chains lack transparency. Companies do not know where the risks lie, or how to manage and mitigate them. How can we achieve complete visibility across all data at multiple tiers of the supply chain with the help of the right technologies and information systems?

► **Digitally-enabled consumer-centric supply chains**

We examine how the conceptualisation of digital supply chains is being used to inform new requirements for digital infrastructures and standards and the potential for connecting App & Device-aware consumers with their product manufacturing supply chains, including the latest developments in last-mile logistics.

► **Global manufacturing and emerging countries: repositioning of MNCs**

What are the impacts of emerging countries and their emerging MNCs on the global economy and the configuration of manufacturing value chain activities worldwide? We will explore the latest results emerging from cross-sector studies across the BRICS and other emerging economies, including a special track on Global Manufacturing and China (GMC'18).

► **Reshoring and Distributed Manufacturing: new paradigms**

Whilst Reshoring and Distributed Manufacturing are capturing the interest of companies and researchers alike, it remains unclear how these trends will impact or even replace traditional manufacturing models. We explore the enabling characteristics, challenges and opportunities.

► **Smart cities, urbanisation and eCommerce**

Continued urbanisation poses significant environmental, social and economic challenges to delivering sustainable business growth. Suppliers will be closer to points of consumption and with smart city technology, we explore opportunities to leverage advances in eCommerce and configure production and material processes to operate flexibly and efficiently in a high volume and high velocity data environment.



Symposium location

The event will be held at the Møller Centre, a purpose-built conference facility in the grounds of Churchill College, Cambridge.



The symposium dinner will be held at Christ's College.

Who should attend:

Senior executives responsible for:

- manufacturing networks
- global supply chains
- operations strategy
- network reconfiguration
- procurement & sourcing
- logistics and customer service

Researchers working in the fields of:

- strategic & operations management
- design of manufacturing or service based supply networks
- international business
- network capabilities
- sustainable & resilient network design

There will be ample opportunity for questions and informal discussion to enable delegates to assess the relevance of issues to their own sectors. An open forum at the end of the day will debate these issues and identify common themes and needs.

Supported by:



Recent industrial participants...

ABB, Aggreko, ALPS Electric (UK), APV, Arup, AstraZeneca, BAE Systems, Beiersdorf AG, Bombardier, BP Solar, Cadbury, Carl Zeiss, Caterpillar, Cisco, Danfoss, Diageo, Domino, Electrolux, Fujitsu-Siemens Group, GKN, GlaxoSmithKline, Grundfos, Hewlett Packard, Honeywell, Huawei, Jaguar Land Rover, Jeyes, Johnson Matthey, Kraft Foods, The LEGO Group, Linde, Mars, Maruti Suzuki, Morgan Crucible, Nestlé, P&G, Philips, Reckitt Benckiser, Rolls-Royce, Schneider Electric, Sealed Air, Shell, Siemens, Smiths Group, Unilever, Wärtsilä, Wavin, WABCO, Yamazaki

Symposium organisers

The Symposium is organised and hosted by the Centre for International Manufacturing (CIM), one of several research centres within the University of Cambridge's Institute for Manufacturing (IfM).

For further information

Please contact: Dr Jag Srar, Centre Head or Mr Patrick Hennelly for detailed programme information: ifm-events@eng.cam.ac.uk