CALL FOR PAPERS

Architecting the digital supply chain
the impact of digitalisation on global manufacturing

29 and 30 September 2016, Møller Centre, Cambridge

Over the last two decades, the Centre for International Manufacturing (CIM) at the Institute for Manufacturing (IfM) has played host to the annual Cambridge International Manufacturing Symposium, which convenes communities of stakeholders from a variety of disciplines with the aim of identifying emerging industrial issues and facilitating the exchange of research thinking in global manufacturing and supply network domains.

The Symposium is a two-day event that provides a platform for industrial leaders, policy makers, and senior academics from around the world to both address these issues collectively and to identify promising topics and approaches for further research.

Key research themes of the 20th Symposium this year will include topics such as:

- Digitally-enabled customer centric supply chains
- Impact of digital technologies on service supply networks
- Supply chain transformation and E2E network integration
- Technology-disrupted supply chains
- Impact of sustainability and the circular economy
- Risk and resilience of global supply networks
- Emerging multinationals (EMNCs)
- Lean production and smart cities
- Next generation global sourcing, and new business ecosystems

Confirmed academic speakers for day two of the Symposium include:

- **Professor Ken Boyer**, Department of Management Sciences, Ohio State University
- **Professor Matthias Holweg**, Operations Management, University of Oxford
- **Daniel T Jones**, Founder and Chairman, Lean Enterprise Academy
The Symposium includes keynote speakers from the world’s leading companies and universities, mixed with informal networking opportunities. It aims to create a growing community of international manufacturing enthusiasts and to inspire ‘thought leadership’ in this exciting field.

**INDUSTRIAL DAY | THURSDAY 29TH SEPTEMBER 2016**
The first day consists of presentations by leading industrialists on the digitalisation issues their companies are facing in capturing value and developing international manufacturing and supply networks, and the initiatives they have taken to improve international competitiveness. This day provides a valuable opportunity for researchers to assess the extent to which previous research is helping companies understand and manage these issues, and to identify potentially fruitful fields for further research.

Confirmed industrial speakers for day one of the 2016 Symposium include:

- Denis Malone, Global Advanced Manufacturing, ABB
- Catherine McDermott, formerly UK Supply Chain Director, Amazon
- Haydn J Powell, Global Supply Chain, Caterpillar inc
- Per Berggren, Industrial Strategy, Ikea Industry

**ACADEMIC RESEARCH DAY | FRIDAY 30TH SEPTEMBER 2016**
The second day will comprise a mixture of keynote academic presentations and research papers in several parallel interest streams. The scope for papers is broad, building on recent issues in the management of international manufacturing and supply networks, and the areas of interest identified in previous Symposia. Selected themes are listed here, but submissions are encouraged in any discipline or subject area related to the Symposium topic.

**IMPORTANT DATES FOR ABSTRACTS AND PAPERS**

- 4th July (Mon): submission of abstracts (max 400 words).
- 18th July (Mon): notification of abstract acceptance
- 22nd Aug (Mon): full paper final submission for accepted abstracts

**ALTERNATIVELY**

- 8th Aug (Mon): direct full paper submission (max 7000 words)
- 22nd Aug (Mon): acceptance notification for presentation

NB Acceptance is conditional on at least one author booking to attend the Symposium by Friday 26th August 2016

All abstracts should be sent to the Events Manager at: ifm-events@eng.cam.ac.uk

www.ifm.eng.cam.ac.uk/events/cimsymposium16
The focus of this year’s Symposium is supply chain digitalisation and its implications for global manufacturing. Submissions are encouraged that address the core theme of the Symposium and/or any of the specific themes listed below:

- **Digitally-enabled customer-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 global developments in e-commerce and last-mile logistics.

- **Impact of digital technologies on service supply networks**
  Changing consumer behaviours and the emergence of digital technologies are driving innovations, in terms of ‘products’ and ‘services’. 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.

- **Supply chain transformation and end-to-end (E2E) network integration**
  Rapidly changing strategic contexts have required many firms to reconfigure their operational footprint. This track provides insights on how leading firms are adopting digital technologies and a digital attitude to supporting supply chain transformation. How do we enable data integration across the supply chain for more responsive or adaptive supply?

- **Technology-disrupted supply chains**
  This track will explore the combined impact of digitalisation and new production technologies. How will Big Data and the Industrial Internet of Things combine with alternative production processes such as continuous, additive, flexible/collaborative automation and more distributed manufacturing models. What new capabilities are required in terms of equipment, technology, systems, skills and attitudes?

- **Impact of sustainability and the circular economy**
  International manufacturing networks are having to adapt in response to changing availability of natural resources, more circular economic systems, and the pressure to manage global environmental impacts. How can firms best reconfigure their supply chain networks from a ‘triple bottom line’ perspective?

- **Risk and resilience of global supply networks**
  We will explore the latest approaches that support network resilience as well as the risk mitigation practices of leading ‘exemplar’ firms in a diverse set of sectors and contexts. How might the digitalisation of supply chains enable increased transparency? Does increased data introduce new risks and challenges linked to cyber security?

- **Emerging multinationals (EMNCs)**
  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.

- **Lean production and smart cities**
  In the smart city the lean supplier will be closer to points of consumption and with smart city technology will be able to configure production and material processes to operate efficiently in a high volume and high velocity data environment. What are the barriers to, and the enablers of, the implementation of lean production concepts in digital oriented settings?

- **Next generation global sourcing, and new business ecosystems**
  As new manufacturing and sourcing opportunities emerge, how might collaborative business partnerships evolve? This track welcomes contributions in the areas of ‘next gen’ production, procurement and supplier management, business models and ecosystems.
WHO SHOULD ATTEND:
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

Although the Symposium attracts an international audience of senior academics, papers from doctoral researchers are particularly encouraged. Presenters should bear in mind that industrial delegates are encouraged to stay for the research day and should therefore aim to make their work accessible to a non-academic audience and to highlight any practical implications. 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 on day two will debate these issues and identify common themes and needs.

THE SYMPOSIUM ORGANISERS
The Symposium is organised and hosted by the Centre for International Manufacturing (CIM), one of several Research Centres in Cambridge University’s Institute for Manufacturing (IfM), which acts as a focal point for industrial managers and the wider community concerned with international manufacturing issues and problems. The formation of the Centre recognises the importance of these issues in the modern industrial environment alongside the traditional domains of manufacturing strategy and performance measurement, technology management, and product planning and introduction. www.ifm.eng.cam.ac.uk/cim

SYMPOSIUM VENUE
MØLLER CENTRE, CHURCHILL COLLEGE, CAMBRIDGE
The Møller Centre is an award-winning Management Training and Conference Venue. It was designed by Danish Architect Henning Larsen to create a stylish venue for residential training and conferences.

The symposium dinner will be held at St John’s College, founded in 1511.

QUERIES
For further information about CIM and the Symposium programme contact:
Dr Jag Srai, Centre Head: jss46@cam.ac.uk and/or
Dr Tomás Harrington: tsh32@cam.ac.uk

For any logistical information contact: Ella Whellams: ifm-events@eng.cam.ac.uk