

## Welcome from the Sector Chairman



Dear Reader,

Welcome to the first issue of the Design and Production Sector newsletter in 2014!

I am pleased to see that this year has started with a positive boost to the UK manufacturing industry following the announcement of Government funding schemes supporting aerospace technology, electronics manufacturing and innovative robotic systems. Investment is crucial to sustainability and these first steps will hopefully help towards invigorating UK competitiveness in the manufacturing sector again.

We are continuing the "Food Security" theme; key on-farm and off-farm engineering challenge streams to be identified with a view of producing an end of year report this year. Any comments or contributions you may have on this topic is most welcomed!

Best wishes

Morgan David, Sector Chairman, IET Design & Production



## Sector News



### [George Osborne announces £60m to support UK's Aerospace technology](#)

New funding will support the creation of an "Additive Manufacturing" national centre to develop new products for aero-engines and aircraft landing gears, as well as automotive and medical devices. [Find out more...](#)



### [Unlocking the potential of autonomous vehicles in agriculture](#)

The recent Harper Adams one day seminar explored the potential for using unmanned vehicles in agriculture and the global food security arena, examining the technological developments and core challenges. [Find out more...](#)



### [£4.5m for "Manufacturing Electronic Systems of the Future" competition](#)

The Technology Strategy Board (TSB) announces £4.5m funding for electronics manufacturing via the "Manufacturing electronic systems of the future" competition. Registration deadline of 26 March intended for businesses involved in collaborative R&D or feasibility studies. [Find out more...](#)

## IET.tv



### [Turing Lecture Royal Institution on 24 February 2014: Dr Bernard Meyerson](#)

IBM's vice president of innovation Dr Bernard Meyerson wants to change the future. Not simply in the direction of IT, but in using computers to sidestep traffic gridlock, deadly diseases, and energy blackouts. In this presentation, Meyerson expands on the types of innovation IT needs.

[Watch video...](#)



### [How can SMEs and large companies in the digital economy work together to achieve better outcomes?](#)

Smaller businesses often work with larger companies as a subcontractor or a partner in consortia to win government business. They also sometimes work together to develop and bring new bright ideas to market.

[Watch video...](#)



### [APMG report - 'Making Good: A Study of Culture and Competitiveness in UK Manufacturing'](#)

Latest report from the All-Party Manufacturing Group warns of a UK competitiveness stalemate if the national industrial culture continues. Political parties are called upon to establish a framework for change within the next ten years encouraging the industry to invest in skills and technology and collaborate with other companies. [Find out more...](#)

## Sector Highlights



### [Benefits of taking a proactive approach to sustainability](#)

Dr Greg Lavery presents on the drivers and benefits of non-labour resource productivity at the recent Industrial Sustainability conference highlighting resource efficiency opportunities as well as employment and environmental benefits. Performance findings from Coca Cola, Toyota, Unilever, P&G and more are outlined. [View presentation...](#)



### [Toyota shares resource efficiency secret](#)

Presentation from Steve Hope of Toyota Motor Europe gives insight into how the company has improved resource efficiency in energy, water and waste for its vehicles. [View presentation...](#)



### [On-Farm engineering challenges](#)

The "Food Security" forum for on-farm technologies moves closer to identifying the key streams for on-farm and off-farm engineering challenges for an end of year report. IET members welcomed to contribute to this piece of work. [Find out more...](#)



### [New EPSRC national facility for innovative robotic systems](#)

£2.6m of Government funding has been awarded to the University of Leeds research hub for small to medium scale advanced robotic systems. The facility, to be launched in October 2014, will have the capability to integrate hard and soft mechanical structures with electric systems and computing in compact and complex ways. [Find out more...](#)

## Upcoming Events

11 Mar 14

### [Rapid Prototypes](#)

Westbury, UK

Dr. Guy Bingham at Loughborough University gives insight on design opportunities and applications of Additive Manufacturing and Computer Aided Design.

[Learn more...](#)

13 Mar 14

### [HiPerNano 6th Annual Conference & Exhibition](#)

London, UK

Bringing together nanotechnology solution developers and end-users to solve engineering challenges.

[Learn more...](#)

20 Mar 14

### [Sustainable Innovation Lecture](#)

Coventry, UK

Join Cindy Barnes, Head of Ideas at Futurecurve to talk about sustainable innovation.

[Learn more...](#)

27 Mar 14

### [The IET Viscount Nuffield/Menforth Lecture 2014](#)

University of Strathclyde, UK

Hear Nigel Whitehead, BAE Systems, speak on Advanced Manufacturing in the Defence Industry. Free to attend!

[Learn more...](#)

20 Apr 14

### [Sir Alan Veale Lecture 2014 - The Next Manufacturing Revolution](#)

University of Warwick, UK

Dr Greg Lavery, Lavery Pennell will talk about the new manufacturing revolution and non-labour resource productivity.

[Learn more...](#)

## Sector Review



### [New IET Video](#)

Take a look at the IET video showcasing how the IET inspires, informs and influences the global engineering community. [Watch video...](#)

## Publications and Resources



### [New IET Knowledge Packs now offer a flexible way to access the IET Digital Library](#)

As a new benefit, IET members can now obtain 5 free credits to download content from the IET Digital Library. Get access to knowledge to assist your research and everyday challenges, whilst contributing towards Continuing Professional Development (CPD) as part of the IET's CPD Monitoring Scheme. [Get your FREE credits...](#)



### [Free Paper: Exploring How Unified Communication & Collaboration Transform Roles in Manufacturing](#)

This paper explores the realignment of the manufacturing sector around greater automation and talent-centred culture, and the resulting needs this creates related to communication and collaboration where the criteria for success is more dependent on human capital than machines. [Download paper...](#)



### [Free Technical Webinar: Modelling of Capacitive and Resistive Devices](#)

**2 April | 2pm GMT**

Learn best practices for modelling common multiphysics effects such as cooling air flow, thermal expansion, and Joule heating, in addition to the electromechanical couplings often observed in sensors and actuators. [View full programme...](#)

## E&T News



### [Jaguar Land Rover starts recruitment drive](#)

Car giant Jaguar Land Rover has opened the applications process for the first phase of 1,700 new jobs supporting the production of new vehicles. [Read more...](#)

## Jobs in your sector



### [Engineering & Technology Jobs](#)

Search for your next job in the Design & Production Sector and upload your CV today!

[Process Engineer](#), Limerick

[Lead Manufacturing Engineer](#), London

[PPI Engineering](#), Norwich

[Mechanical & Electrical Engineer](#), London

[Manufacturing Engineer](#), Limerick

## Your Feedback



### [Your feedback welcome!](#)

We hope you enjoy reading our newsletter. We're keen to celebrate and champion the work of engineers and technicians working in the Design and Production sectors. We'd like to invite your suggestions as to subject areas or hot topics you'd like to see covered by the Sector. Perhaps there's a burning issue you feel passionately about or a project you feel your peers would benefit hugely from knowing more about? Alternatively, you might just want to get in touch to register your interest in getting involved in the Sector or to offer your comments on this edition of our newsletter. I look forward to hearing from you. Do get in touch!

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## [Embedded technology powers cyber-physical systems](#)



The embedded computers used to control industrial machinery are starting to talk among themselves – and it's a process that could change the way we program managing systems. Industrial Revolution 2.0, as pundits call it, mirrors many of the existing trends in IT in which machine intelligence moves out from PC-class hardware to smaller devices at the edge and, at the same time, into the cloud. [Read more...](#)

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