

## Newsletter - Spring 2016

Founded in 2013 as part of a direct response to the BIS Strategy for Power Electronics, the EPSRC National Centre for Power Electronics brings together the very best research groups in a UK-wide, world-leading, multi-disciplinary, virtual centre. Deep involvement of users and Government provides the industry and policy context for directing generic research into new technologies which can subsequently be translated into an applications context.

Centre activities are divided into three main strands: research, community and pathways to impact. Our research activities bring together the leading academic research groups from across the UK to address key research challenges, build critical mass and develop a widely recognised internationally leading research capability. We focus on fundamental power electronics research at low technology readiness level (TRL) and hence support a wide range of application areas with a medium to long-term time horizon. Ambitious cross-institution projects build on the core research and seek to exploit the strength and breadth of UK talent.

### Annual Postgraduate Summer School - 1<sup>st</sup> & 2<sup>nd</sup> June, National College, Nottingham

If you're a postgraduate researcher this is an excellent opportunity to present your research to peers and industry, exchange ideas, expand your network and establish solid relations for the future. The programme includes keynote presentations from Dr Will Drury – Ricardo, Hans-Peter Feustel - Continental Corporation and an academic presentation from Prof John F. Eastham - Emeritus Professor University of Bath & Fellow of the Royal Academy of Engineering. There will also be an industry exhibition and social events. <http://www.powerelectronics.ac.uk/power-electronics/events/>

### The GaN Systems Geoff Haynes Future Power Challenge

We are delighted to announce this prestigious annual award, worth £2000, for the research paper or poster, presented at the Centre's Postgraduate Summer School, making the strongest contribution to the acceleration of the use of GaN transistors in future power conversion or control applications. The prize will be presented at the Centre's Annual Conference. <http://www.powerelectronics.ac.uk/power-electronics/news.aspx>

### Annual Conference - 5<sup>th</sup> & 6<sup>th</sup> July, National College, Nottingham

This year's annual conference includes keynote presentations from Alex Lidow, CEO and co-founder of EPC and from Braham Ferreira, Professor of Power Electronics and Electrical Machines at TU Delft. Our technical sessions will showcase the best academic research from around the UK and on day 1 we will host a unique research to industry event, featuring a poster session and one-to-one meetings. <http://www.powerelectronics.ac.uk/power-electronics/events/>

### Diary of Forthcoming Events 2016

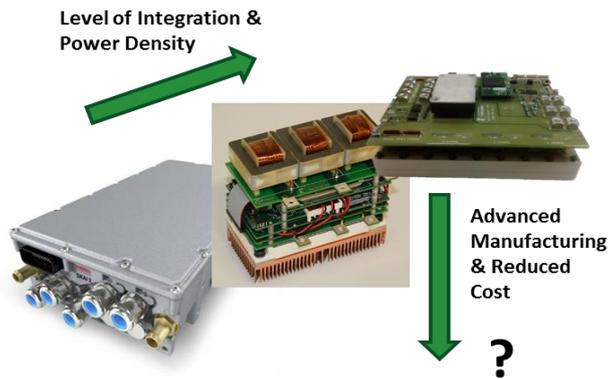
Date	Event
10 <sup>th</sup> – 12 <sup>th</sup> May	PCIM Conference and Exhibition Nuremburg
1 <sup>st</sup> – 2 <sup>nd</sup> June	EPSRC Centre Postgraduate Summer School
7 <sup>th</sup> – 12 <sup>th</sup> June	Cheltenham Science Festival
5 <sup>th</sup> – 6 <sup>th</sup> July	EPSRC Centre Annual Conference
5 <sup>th</sup> July	EPSRC Centre Industrial Members Section: Research-Industry 1-2-1 Event
13 <sup>th</sup> September	EPSRC Centre Industrial Members Section: Future Challenges

### IET Power Electronics Machines and Drives Conference – 19<sup>th</sup>-21<sup>st</sup> April 2016

Highlights of the 2016 edition included keynote presentations on the future of power electronics from the Centre's theme leaders: Phil Mawby (Devices), Phil Mellow (Components), Andrew Forsyth (Converters) and Barrie Mecrow (Drives). The presentations can be found at <http://conferences.theiet.org/pemd/programme/keynote/index.cfm>

### APC Power Electronics Spoke Launch

On 16<sup>th</sup> February the Centre for Power Electronics and the University of Nottingham launched the first thematic spoke of the Advanced Propulsion Centre (<http://www.apcuk.co.uk>). Power electronics is recognised as a key enabling technology for electric and hybrid-electric automotive power trains but challenges exist at technological, manufacturing and supply chain levels. The spoke will promote: knowledge transfer and development of emerging technologies; development and deployment of new manufacturing methods; development of the supply chain; skills (conversion & capacity).



For details of all of our previous events please see: <http://www.powerelectronics.ac.uk/power-electronics/events/pastevents.aspx>

### Mid-Term Review

EPSRC undertook a comprehensive review of the Centre during autumn 2015, examining the Centre's research, community support mechanisms, industry engagement and plans for the future. We are pleased to announce that following the review, the Centre's funding has been confirmed through to June 2019.

### Funding Opportunities

The centre continues to support the Research Funding Exchange Scheme. Funding is available for researchers who wish to take an overseas secondment to initiate a collaborative project with external research organisation and for external researchers who wish to initiate a collaborative project with a UK University, affiliated to the EPSRC Centre for Power Electronics. [www.powerelectronics.ac.uk/power-electronics/funding-calls/funding-opportunities](http://www.powerelectronics.ac.uk/power-electronics/funding-calls/funding-opportunities)

### Doctorate Scheme

The Centre for Power Electronics Doctorate Scheme aims to address the skills shortage by providing doctoral training through a close partnership between Universities and industry. This is a unique opportunity to undertake a doctorate in Power Electronics, working in partnership with a leading university and industry. The doctorate gives an industrial outlet and perspective on research, which is awarded for 3.5 years and includes fees and substantial bursary. Successful candidates will gain industrial experience and training opportunities alongside world-leading research groups. [www.powerelectronics.ac.uk/power-electronics/skills-and-training](http://www.powerelectronics.ac.uk/power-electronics/skills-and-training)

For any further details please contact [michelle.fusco@nottingham.ac.uk](mailto:michelle.fusco@nottingham.ac.uk) or telephone 0115 95 15545.

**The EPSRC Centre for Power Electronics: transforming our future through world-leading, underpinning research, combining the UK's best academic talent. [www.powerelectronics.ac.uk](http://www.powerelectronics.ac.uk)**