



## Meet Dr Philip Cooper

Dr Philip Cooper joined the EPSRC Centre in February 2015 after retiring from De La Rue International following 14 years service in research. Philip has worked in various research roles for over 40 years in many diverse industries and has wide experience in designing research projects for mass production. He has degrees in Physics and Electrical Engineering from London University and a PhD in Transducer Design from Exeter University. While at De La Rue, Philip had a number of research roles from Technology Applications Manager to the Head of Research developing security product concepts for the next decade. Prior to De La Rue, Philip championed innovation in his roles in electrical machines, magnetic metals, automotive, textiles and defence. At Exeter University he helped innovate, design and instigate manufacture of a Tactile Aid for the profoundly deaf.

Philip has been a champion within De La Rue for the benefits of Large-Area Electronics and initiated research into printable semi-conductors and energy harvesting systems. He has presented seminal work on printed electronics at many major conferences and is widely published in the field.

I was excited to join the EPSRC Centre for Innovative Manufacturing for Large-Area Electronics to contribute my industrial experience to help achieve the EPSRC Centre's objectives. I firmly believe that the task undertaken by this EPSRC Centre for Innovative Manufacturing is significant in taking the emerging industry for Large-Area Electronics (LAE) one step nearer realisation and I welcome the challenge this brings. My varied industrial and academic experience in a diverse range of market sectors - from medical devices and automotive to defence and to electrical and electronic device manufacturing has provided me with a clear perspective of not only what it takes to make ideas work, but also what is needed to make them a commercial success.

My role at the EPSRC Centre allows me to engage with project teams at the four partner Universities and to provide guidance and advice based on my industrial experience to help steer projects toward the path of commercial success. I believe that

the key to success for any project is to recognise what needs to be done to open the door to industrial exploitation at an early stage of innovation development. While working with the ARPLAE project team at Swansea, we've been able to link the development of an exciting new rheology measurement technique to industrial printing characteristics, thus paving the way to achieving more precise deposition of electronic device layers. Together with the Flexipower team, I've been investigating tuneable broadband energy harvesting to enable efficient power sources for novel electronic systems produced for very high volume markets. I have also been engaging with the PLANALITH team at Imperial. Their research promises a highly innovative approach for the manufacturing of high performance devices over large areas.

I am thrilled to be a part of the EPSRC Centre team and to have the opportunity of working with bright, young researchers and help them succeed in their projects.