

The programme will include	
09.00	Open for registration <i>(with coffee/biscuits)</i>
10.00	Director General <i>(Opening remarks)</i>
10.05	Peter McOwan <i>(Living with Robots)</i>
10.50	Keith Errey <i>(Connected Freedom – Delivering the Promise of Wireless Digital Healthcare)</i>
11.35	Break <i>(with coffee/biscuits)</i>
12.10	Blay Whitby <i>(The Ethical Implications of Smart Homes and 'Caring Technologies' or Would you choose to be cared for by a robot?)</i>
12.50	Jon Bird / Rachel Cary <i>(Smart Grids: More than a Network Issue)</i>
14.00	Lunch
16.00	Close

Cost to IAP Members and their guests £94.00 including VAT

Cost to non-members is £188.00 including VAT

*Prices includes lunch with drinks.
Space is limited, please mail your cheque or telephone your credit card details to the IAP office as soon as possible.*

This event attracts 2 CPD points for IAP members who also belong to the Institute of Continuing Professional Development. The Institution is happy to liaise with employers who wish to credit attendees in respect of their in-house CPD schemes.

To reserve your place

- email admin@iap.org.uk
- call 0208 567 2118
- or send your cheque to:
Institution of Analysts and Programmers
Charles House, 36 Culmington Road
London W13 9NH



The Location



The Magic Circle Headquarters is located at number 12 Stephenson Way, London NW1 2HD.
It is two minutes from Euston station and seven minutes from Kings Cross.



Nearest Tube Stations:
Euston - Victoria Line, Northern Line
Euston Square - Hammersmith & City Line, Circle Line, Metropolitan Line
Warren Street - Victoria Line, Northern Line

Nearest Railway Station: **London Euston**



THE MAGIC CIRCLE HEADQUARTERS



“Come and be part of the magic”



IAP Autumn Conference 2010

Friday 17th September 2010



THE MAGIC CIRCLE HEADQUARTERS

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This year's meeting will be based at the Magic Circle Headquarters, a couple of minutes' walk from Euston mainline station. Hidden behind the doors of No. 12 Stephenson Way, an unremarkable cobbled street, is the spectacular home of the Magic Circle.

This is where the finest magicians in the world meet regularly to invent illusions, share secrets and master their magic. There is a small exhibition of magical equipment, but please note that the Institution will take no responsibility for members who disappear into mystery cabinets or get sawn in half.

Our guest speakers for the IAP Autumn Conference 2010



Peter McOwan

is a Professor of Computer Science and Director of Outreach in the School of Electronic Engineering and Computer Science at Queen Mary, University of London. His research interests are in visual perception, mathematical models for visual processing, cognitive science and biologically inspired hardware and software. He has authored more than 90 papers in these areas. He recently served on the Program Committee for ACII2009, CVPR 2009 and IEEE Artificial Life and is a member of the editorial board of the Journal on Multimodal User Interfaces. Current research projects include LIREC, an EU FP7 IP, developing long-term synthetic companions. He was elected a National Teaching Fellow by the Higher Education Academy in 2008.

His presentation considers how, in the near future, we may share our homes and offices with new socially aware technologies, assistive robots and graphical companions who will help us work and play. He will present work from the EU funded LIREC project which seeks to develop and test socially intelligent artificial agents in real world long-term interactions. He will also explore how LIREC draws inspiration from human neuroscience and a detailed study of dog behaviours to create these future companion technologies.



Keith Errey

is Chief Operating Officer and co-founder of Toumaz Technology Limited. He is an authority in the early stage commercial development of new technologies, particularly in the context of university spin-outs. Prior to Toumaz, he founded Oxford Synergetics Ltd, a consultancy organisation providing technology transfer and start-up business services to a range of university and corporate clients.

He holds a BSc from the University of New South Wales, an MSc in physics from Oxford University and, for several years, ran the 'Management for Engineers' course at Oxford Brookes University.

His current interests include quantitative physiology and the impact of digital technologies on healthcare delivery, in particular the use of body area networks and telehealth services to improve outcomes and reduce costs.

This presentation reports on new work using state-of-the-art ultra-low power technology and end-to-end systems that are providing clinical validation of wireless patient monitoring in the hospital. Methods for ensuring robust and secure data channels are presented, together with how the burden of the very large data sets acquired by continuously monitoring patients may be effectively reduced without compromising patient safety or changing established work flows.

Once established in acute care settings, wireless monitoring of patients in their homes will become an integral part of many care pathways. New services will be offered that connect patients at home (or even in the street) to augmented Electronic Medical Records for continuous personalised care.



Blay Whitby

is a lecturer in Computer Science and Artificial Intelligence at the University of Sussex. He is a philosopher and ethicist concerned with the social impact of new and emerging technologies. A leading researcher in the field, he has written many books, chapters and papers including "On Computable Morality", "Reflections on Artificial Intelligence: The Legal, Moral and Ethical Dimensions" and "Artificial Intelligence, A Beginner's Guide", which was voted Outstanding Academic Title of 2003 by US magazine Choice. Dr Whitby is a member of the Strategic Ethics Committee of BCS, the Chartered Institute of IT and is ethical advisor to the Royal Academy of Engineering.

His presentation will address the many social and ethical problems raised in the process of developing new technologies. These problems must be addressed by the technologists themselves without waiting for courts and governments to respond. This is particularly true of some technologies which are at present near-to-market. Using the example of 'smart homes', he will show that a number of ethical decisions have to be made at the design stage. These include determining the limits on intrusion, preserving the dignity of vulnerable users and balancing the needs of competing stakeholders. These are difficult issues but they cannot be avoided.



Jon Bird

is Head of Sustainability for CE Electric UK, the electricity distribution business for the North East and Yorkshire. Prior to joining the company in 2000, he was head of Government relations for BNFL. He has also worked for the Department of Energy and the Treasury on energy policy including the privatisation of the gas and electricity industries. He is a member of the CBI's Energy Policy Committee and is a Fellow of the Energy Institute.



Rachel Cary

is a senior policy adviser at Green Alliance, an environmental think tank and charity working to put environmental issues at the top of the political agenda. Rachel leads Green Alliance's climate and energy futures work, looking at infrastructure requirements for successful transition to a low carbon economy. Rachel is author of the Green Alliance report, Future proof: An electricity network for the 21st century, which considers the changes needed in electricity networks to de-carbonise our energy system and successfully introduce low carbon technologies such as electric vehicles and small-scale renewable generators.

Together, they will show how bringing about the low carbon economy will have a major impact on the way electricity is generated, delivered and used. More sophisticated data gathering and communication, using smart meters, can help bring this about cost-effectively. But the transition will also require changes to the electricity industry's operations and the way we consume energy. This presentation considers the case for a smart grid, looks at options for bringing it about and explains how we can help the customer become a smarter electricity user.