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Technology Developments in eHome and eCare

Networking event: 5 December 2007, Cavendish Conference Centre, London

Benefits of attending:

- **DISCOVER** cutting-edge technological developments and areas of investment
- **FIND OUT** what factors influence user adoption
- **LEARN** about the newest technologies in eCare
- **GAIN** an insight into the emerging security challenges in the eHome environment
- **ESTABLISH** new opportunities for collaborative research and partnerships between industry and academia

Speakers include:

David Walker
Philips Research
Laboratories

Clive Grinyer
Orange France Telecom

Dr Andy Stanford-Clark
IBM

Asanga Gunatillaka
Virgin Media

Mike Short
O₂ Group

Prof Heinz Wolff
Brunel University

Phil Bull
BT Group Research

Prof Kevin Warwick
University of Reading

Sultan Haider
Siemens AG

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5 December 2007, Cavendish Conference Centre, London

The range of communicating electronic devices in the home is opening up new opportunities and threats for many industry sectors including telecommunications, healthcare, energy, gaming and white goods. The event will consider the factors driving user adoption of these devices and take a detailed look at one major application: e-health/e-care. The event will finish with a detailed consideration of the security and privacy issues raised and the way that these technologies can best be developed to maintain consumer confidence.

08.30 Event registration

09.00 Opening address

- Introduction to LTN
 - Accessing finance through UKTI
- Peter Hicks**, Technology Consultant, London
Technology Network

Session 1: Improving technology to increase user adoption

09.10 Chair and introduction to session

Challenges to improving user adoption

- User engagement in the design process
- Finding out what the user wants and evaluating new propositions: from field trials to controlled environments
- Case study: the i-Space Project

Dr Michael Gardner, Deputy Director, Chimera, Essex University

09.25 Creating intelligent ambient home systems: devices, standards and connectivity

- Choosing the right radio for the job
- Managing multiple radio systems in the home
- Standards and interoperability
- Robustness and interference

David Walker, Senior Scientist, Wireless Group, Philips Research Laboratories

09.40 Creating a seamless user-interface: pulling together applications to create a compelling user-experience

- What is the next generation of converged services?
- Smart design and developing cross-platform experiences
- How to ensure usability, simplicity and ease of use
- Enabling convergence of applications: interface versus protocol standard

Clive Grinyer, Director of Design, Orange France Telecom

09.55 eHome2.0: mash-ups, threshold devices and the curious home

- Moving domestic technology beyond entertainment, shopping and home management to embrace new values

- Situating web content for the located home
- Making users' active interpretation an essential part of the system

William Gaver, Professor of Design, Goldsmiths College, University of London

10.10 Panel discussion

10.30 Networking break with one to one partnering sessions

Session 2: Infrastructure in the home

11.00 Chair and introduction to session

The Intelligent Aware Home: technological challenges

- Requirements of Aware Home management systems
- Technological Vision and Calm Computing
- Self-managing Architectures
- Case study: ANS and Bio-ANS

Dr Julie McCann, Reader, Department of Computing, Imperial College London

11.15 Wireless networks and smart devices for managing and controlling energy resources in the home

- Addressing the challenges surrounding providing more than one commodity
- Reviewing the importance of real time metering for industrial processes
- Evaluating the challenges of large scale project roll out
- The future – addressing the idea of smart meters with diverse functionalities in the home

Dr Andy Stanford-Clark, Master Inventor, Pervasive Messaging Technologies, IBM

11.30 What is the vision for the digital home?

- What will the digital home be like in 5 – 10 years' time?
- Emerging trends in communication and entertainment
- Understanding consumer needs – interactive v passive (lean back v lean in)
- Impact on the value chain

Asanga Gunatillaka, Group Strategy, Virgin Media

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11.45 **Beyond the home hub – what will be the next big thing for mobile operators: 3G or 3A, 3C, 3M, 3W?**

- Applications anywhere anytime
- Customer centred communications
- Machine to machine messaging
- World wide web Web 2.0 and beyond

Mike Short, Vice President, R&D, **O₂ Group**

12.00 Panel discussion

12.20 **Networking lunch with academic poster and partnering sessions**

Session 3: Developments in Ambient Assisted Living

13.35 **Chair and introduction to session**

- How eCare can lead to a more holistic approach to health and social care in the home
- The effectiveness of eCare in relation to the quality of life of the recipient
- Challenges to innovation in the culture of the potential service provider

Prof Heinz Wolff, Institute for Bioengineering, **Brunel University**

13.50 **Challenges for remote health monitoring and diagnosis in the home**

- Are the challenges technical, social or commercial?
- Assessing the role of innovation for assisted technologies
- Determining which parties need to be involved for a successful uptake
- Finding a coherent approach

Brian Winn, Head of Technology & Product Introduction, **NHS – National Innovation Centre**

14.05 **Analysing the impact of ubiquitous technologies on patient care and medical practice**

- A review of current and emerging technologies in the tele-care sector
- Experience gained from trials and subsequent forthcoming initiatives for medical devices
- The way forward – what does the future hold for medical communications?

Phil Bull, Chief Technical Officer, **BT Group Research**

14.20 **Advancements in implanted technology to improve eCare**

- Implants as an information and communication device for patients
- Allowing patients direct neural control of their domestic environment
- Using the network to predict and control neural problems, eg for Parkinson Disease

Prof Kevin Warwick, Cybernetics, **University of Reading**

14.35 **Outlining the latest developments in body centric wireless communications**

- Background and applications
- Antennas and propagation issues
- Implementation and measurement of wireless wearable and implantable sensors
- Application of body centric wireless communications in the home environment

Prof Yang Hao, Antennas and Electromagnetics, **Queen Mary, University of London**

14.50 **Technology developments in eCare**

- Assessing business opportunities and partnerships
- Sultan Haider**, Head of Technology and Business Innovations, **Siemens AG**

15.20 **Panel discussion**

15.40 **Networking break with one to one partnering sessions**

Session 4: Security and Privacy in the eHome Environment

16.15 Chair and introduction to session

Security, authentication and data-sharing

Prof Fred Piper, Information Security Group, **Royal Holloway, University of London**

16.30 **Challenges for security in the eHome environment**

- The importance of integrating security into applications from the outset
- The latest developments in security technology
- The relationship between security and the user

Stuart Morris, Chief Scientist and Technical Director, **Tricerion Ltd**

16.45 **Panel discussion**

17.15 **End of conference followed by tea and further one to one partnering meetings**

SPONSORSHIP

This unique event will be an excellent opportunity to initiate new relationships through tailored networking and a showcase of the latest academic research. LTN offers a range of sponsorship packages to enhance your brand. For further information, contact Kate Ray on **0870 730 8682** or **k.ray@ltnetwork.org**

All events are by INVITATION ONLY

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Registration

Payment:

Early bird special (until 7 November 2007)	£150.00 (+ VAT = £176.25)	(concessionary price 1)
Commercial	£200.00 (+ VAT = £235.00)	(standard)
Academic*	£75.00 (+ VAT = £88.12)	(concessionary price 2)

* Academic rate is extended to full-time employees of government, universities, university-affiliated hospitals and charities

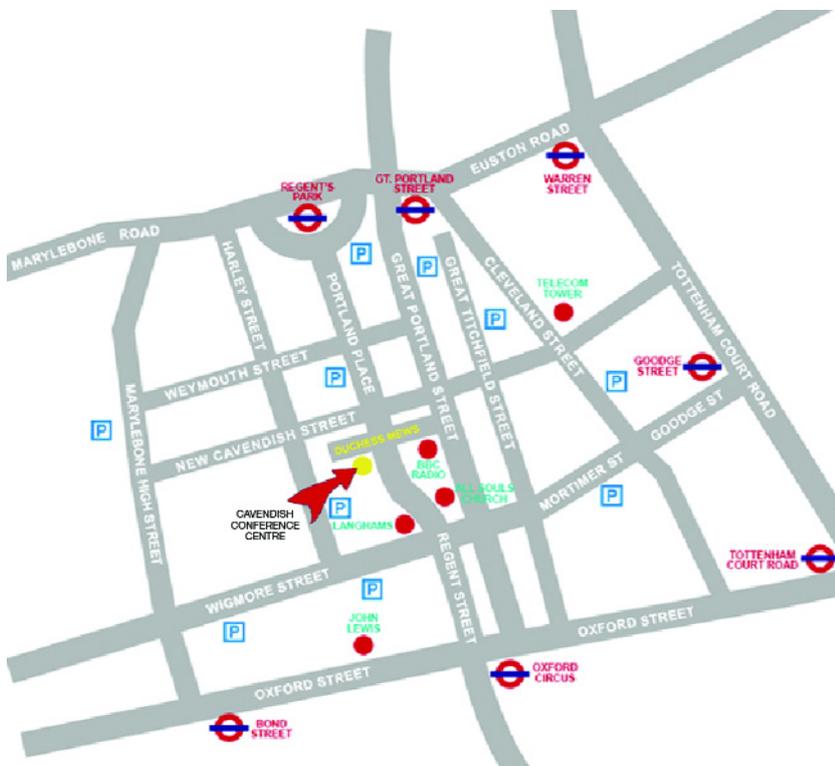
Costs for the conference are shown above. The fees are all exclusive of VAT (17.5%). **All payments must be received prior to the conference and should be made within 14 days of receiving a formal invitation.** Prices include reception, lunch, refreshments and delegate documentation. All LTN events are by INVITATION ONLY to ensure that the quality of interaction is maintained. • To apply for an invitation, and to find out about different payment methods, please email **Sheila Ohene** at s.ohene@ltnetwork.org. **Cancellations must be made at least 5 working days before the event.**

This event will take place at
Cavendish Conference Centre, 22 Duchess Mews, London W1G 9DT, Tel: 020 7323 4555,
www.mayfaircavendish.co.uk

How to get there

This event will take place at Cavendish Conference Centre, 22 Duchess Mews, London W1G 9DT, Tel: 020 7323 4555, www.mayfaircavendish.co.uk

For a more detailed view, please go to <http://www.mayfaircavendish.com/locations/cavendish/>



By Underground

Oxford Circus Underground Station is 5 minutes walk away. Take Exit 4 on leaving the station, walk North up Regent Street, past the Langham Hotel. Duchess Street is the 5th on the left. Turn left, and almost immediately you will see Duchess Mews on your right hand side, where our sign is clearly displayed.

By Rail

Marylebone, Euston and Kings Cross St Pancras Stations are all within 10 minutes taxi rides or alternatively 15 minutes by Underground. Paddington Station (which has a direct link to Heathrow every 15 minutes) is 20 minutes walk or 10 minutes in a taxi.

Car Parking

On street Pay and Display car parking is available outside the Conference Centre; otherwise there are NCP car parks, as listed below, all within 5 minutes walk of the venue. Weymouth Mews, Chandos Street, Cavendish Square.

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