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EMBEDDED SYSTEMS FOR FUTURE DIGITAL LIFESTYLES

Thursday 23 September 2008

Electronics Knowledge Transfer Network

at the

University of Essex

Products with embedded computing functions are all around us. Take the mundane example of a busload of people on their way to work. Not only does the modern bus have around 200 embedded processors in it - running everything from the ticket machine to the windscreen wipers - but everyone on the bus is loaded with smart phones, iPods, PDAs, plus perhaps the occasional heart pacemaker. This could have hardly been imagined 30 years ago, when Singer sewing machines launched one of the first everyday products to contain an embedded microprocessor.

The future at home, in the office or out and about will be even more embedded. This will be driven not just by the 'march of technology', but more importantly by the economic, environmental and social challenges we face – an example being the need to affordably care for an ageing population.

The design of practical embedded systems and System-On-Chip devices requires developers to juggle multiple requirements like design time, complexity, reliability, power, self-testing and functionality – often potentially conflicting with each other. This Event will show how Academia and Industry are working together in this vital area, and will describe some of the latest advances in the field, with speakers from world-class organisations including **BT Research, Kodak, ARM** and our hosts, the **University of Essex**.

As well as challenging presentations, the event will include a visit to the University's *i-Space* and *Robot Arena*. The *i-Space*, an "intelligent" dormitory is a two-bedroom flat designed to provide a powerful and flexible test bed for researching and testing of new products, and allows academics and companies to test equipment, systems and human behaviour within the intelligent living environments of tomorrow. Meanwhile, the robots in the University's specially designed *Robot Arena* will be "strutting their stuff" for visitors.

Please use the separate booking form to reserve your place now



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Agenda

- 13:00 Arrival (transportation from the Station to the University)
- 13:45 Welcome and Introduction
Dr. Sam Steel—Head of the Department of Computing and Electronic Systems, University of Essex and Daniel Dearing—Electronics KTN
- 14:00 Successful Collaboration for Systems of the Future
Keith Everard—BT Research
- 14:20 i-Space—Research into our Digital Lifestyles of the Future
Professor Vic Callaghan—Director of the Digital Lifestyles Centre, University of Essex
- 14:40 Meeting the needs of the Digital Family
John Piper—Kodak European Operations
- 15:10 Break
- 15:20 The Embedded Systems Challenge: Development of the “Super Chip”.
Dr. Klaus MacDonald-Maier—Reader in Embedded and Intelligent Systems Research Group, University of Essex
- 15:40 Applications of Embedded Microprocessors in Consumer Products
Javier Orensanz—ARM Holdings
- 16:00 Fuzzy Logic for Future Lifestyles
Professor Faiyaz Doctor—Senior Research Officer/KTP Associate, Computational Intelligence Centre, University of Essex
- 16:30 Visit to the i-Space Experimental Apartment and the Robot Arena, with projects supervised by
Professor Huosheng Hu—University of Essex
Nibbles and drinks provided for networking
- 17:00 Close