
Tuesday 14th October 2008 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
CCTV products for the Law Enforcement Market
by Dr. Chris Wilson (Clearview Communications Ltd.)
Joint with Chelmsford Engineering Society
This talk will explore some of the specialist CCTV products developed by Clearview Communications Ltd in Chelmsford to help law enforcement agencies. Also described will be how the company has developed since its inception in 1996 with 2 engineers into one with 70 employees supplying its products worldwide.
Contact: mikegibson@theiet.org

Wednesday 22nd October 2008 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
Telecommunications Security of 3rd Generation Mobile Phones
by Dr. Sufian Yousef
Mobile phones are a must-have with most people these days but how secure is the information we pass through them? This lecture will examine the security of the next generation of mobile phones.
Contact: alirezasanai@aol.co.uk

Wednesday 5th November 2008 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
Automotive Electronics, an Automotive OEM Perspective
by David Biddlecombe (Ford Motor Company)
David Biddlecombe, Micro-Hybrid Implementation and Power Supply manager in Ford Motor Company will discuss the growth of electrical systems in the vehicle, giving an insight into future applications. The presentation will also cover application processes and challenges associated with the integration of electronics into the automotive environment.
Contact: MlclmMcKay@aol.com

Wednesday 19th November 2008 6.00 for 6.30 pm
Room 001, Faculty Building, Anglia Ruskin University, CM1 1SQ
Heat pumps - The Forgotten Green Energy Source?
by Andy Neave (Technical Sales Manager, Calorex Heat Pumps Ltd.)
Joint with Chelmsford Engineering Society
We've heard about wind power, wave energy etc. but what about heat pumps? Andy Neave from Calorex, a local Maldon firm, will discuss the requirements for installing an efficient heat pump system in a domestic environment, look at the cost/benefit analysis and describe a typical installation.
Contact: rogerlsmith@theiet.org

Wednesday 3rd December 2008 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
An Experimenter's Guide to Observing the Beginning of Time
by Prof. S. Withington (Cambridge University)
This lecture will describe the development of advanced super-conducting camera technology to make extraordinarily sensitive measurements at sub-millimetre wavelengths on the cosmic microwave background radiation.
Contact: c.w.tarry@theiet.org

Wednesday 14th January 2009 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
Personal Rapid Transit (PRT) - A transport system whose time has come?
by Malcolm Buchanan (Director, Colin Buchanan Partners Ltd.)
This lecture will discuss why the UK needs a better public transport system and describe the emerging Personal Rapid Transit (PRT) technologies. He will then identify the roles which PRT may come to play in the UK's transport and its potential to cut car use and transport emissions.
Contact: john.shepherd@atkinglobal.com

Wednesday 4th February 2009 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
Latest Developments in HF Surfacewave Radar
by Dave Emery (BAE Systems Integrated System Technologies)
This lecture will provide an overview of some of the latest UK developments in HF Surfacewave radar. Advanced signal processing and simultaneous multiple frequency operation have matured the technology so that it now offers a truly viable, long range wide area surveillance capability. A description of the company's latest radar system will be provided.
Contact: jonathan.wentworth@baesystems.com

Wednesday 11th February 2009 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
A New Clean Coal Power Station at Tilbury in Essex.
by Nigel Staves (Station Manager, Tilbury Power Station)
The talk will discuss the UK's current electricity generation system and supply mix, the European Large Combustion Plant Directive and the reasons a new power station is required at Tilbury. The operation of the existing, 43 year old 1400 MW coal fired power station will be described and it will detail the reasons why Tilbury is one of the best sites in the UK for a proposed new 1600 MW supercritical clean coal fired power station. Details of the proposed new power station will also be provided.
Contact: mjspoor@theiet.org

Wednesday 25th February, 2009 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
Generation & Networks in a Low Carbon Economy
by Helge Urdal (Generation Dynamic Performance Manager, National Grid)
Joint with Chelmsford Engineering Society
Concern about the impact of electricity generation on CO² emissions and hence on global warming has lead to rapid development in generation technology. This talk will cover the expected changes to 2020/30 in moving towards low carbon generation and the consequential network challenges.
Contact: mjspoor@theiet.org

Wednesday 11th March 2009 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
Organisation and Infrastructure for Olympic Games 2012
by Loretta Sollars (Head of Sports and Olympics Development for Essex County Council)
The Olympic Games are the greatest show on earth. The amount of planning, logistics, engineering and technology required to stage the London Games in 2012 will be unmatched. This lecture will give an overview of the complexity and the associated benefits that Essex will secure as a legacy.
Contact: mjspoor@theiet.org

Wednesday 25th March 2009 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
Typhoon Eurofighter - Conception to Manufacture
by Miss Suzanne Venables-Wood (BAE Systems)
Joint with Chelmsford Engineering Society
A lecture detailing the origins of the Eurofighter Typhoon through to the present day manufacturing processes that are used to create this agile, swing-role aircraft. The speaker will explain and show how the current manufacturing techniques have enabled flexible production of the Typhoon, developed within a lean environment by Europe's leading aerospace companies.
Contact: david.lloyd@ultra-scs.com

Wednesday 1st April 2009 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
Decommissioning Bradwell Nuclear Power Station
by Oly Serrano - Bradwell Site Director, Bruce Archer - Nuclear Installations Inspectorate & Chris Lloyd - Environment Agency
Joint with Chelmsford Engineering Society
An overview of the decommissioning of the Magnox Nuclear Power Station at Bradwell. The speakers will cover the technical description of safely closing down the operation and the regulatory issues from both a health and safety and environmental aspect.
Contact: rogerlsmith@theiet.org

Wednesday 22nd April 2009 6.00 for 6.30 pm
Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ
The Curious Life and Complex Legacy of Alec Reeves
by David Robertson (Technology Response Ltd.)
Alec Reeves invented Pulse Code Modulation - the technology on which our 'information age' depends - yet is unknown to the public. A committed pacifist, he devised the most accurate bomb aiming device of WW2, saving the Allies from early defeat. Science writer/producer David Robertson will explore the complexities surrounding the man and his legacy.
Contact: david.lloyd@ultra-scs.com

Wednesday 6th May 2009

6.00 for 6.30 pm

Room QB01, Queens Building, Anglia Ruskin University, CM1 1SQ

The Unique Hardware Challenge of Automotive Electronics

by Mike Lees (Visteon)

As reliable as military electronics, with the cost of consumer electronics? Perhaps not quite, however this talk aims to cover some of the reliability and operating environment considerations with which automotive hardware designers are often faced, and some techniques used by automotive suppliers to address these challenges at a low cost.

Contact: MlclmMcKay@aol.com

Direction to events

Please note that due to the Telford lecture theatre being taken out of use we have had to find a new venue for our events.

We are grateful to Anglia Ruskin University for agreeing to accommodate us at their Rivermead campus in Chelmsford.

Address: Anglia Ruskin University, Bishop Hall Lane, Chelmsford, CM1 1SQ

Free parking will be available behind the Queens Building and in the North Car Park, a short walk away. Simply collect a ticket from the machine at the barrier on entry and use it to exit on departure.

For maps and directions please see our website, or contact a member of the committee.

Anglian Coastal Network Events

Members may also be interested in events at our other neighbouring "Networks". You can register to receive programme information from other sections, particularly helpful if you live on the border or have a particular interest in a locality.

*<http://local.iee.org/suffolk/> (including some events in the Colchester area)
www.theiet.org/cambridge/
www.theiet.org/bedsherts/
www.theiet.org/london/*

Also access sites through the main IET Home Page.

Abbreviations

BCS = British Computer Society
CES = Chelmsford Engineering Society
IET = IET Essex Network
IMechE = Institution of Mechanical Engineers
YMS = Essex Younger Members' Section

CPD: *The events listed here may contribute to your CPD. Members will need to evaluate the personal benefit of each lecture.*

SPECIAL NEEDS: *Anyone with special needs wishing to attend should contact the Hon. Secretary well in advance to discuss arrangements. We can also supply this card in large print version.*

VISITS: *All arrangements made by the IET to visit engineering or other works or establishments are made by the IET as an agent for each person participating and consequently the IET accepts no responsibility for any loss, injury or inconvenience caused to such person in consequence of his/her visit.*

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If you're interested in joining the Younger Members, please contact one of us for more information.



Collective inspiration

**ESSEX
Network**

2008/2009 PROGRAMME

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Add IET Essex Network Events directly to your calendar! Visit the events page of the website and click on the link next to each desired event to add it automatically to your Outlook calendar - also works with some other calendar programs.

Also register via our website for events requiring pre-registration

Network Web Address: <http://www.theiet.org/essex/>

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