



The Institution of *Engineering and Technology*
and **Institute of Nanotechnology** Seminar on

Polymer Electronics

Towards the Future

Tuesday, 21 April 2009

The IET, Savoy Place, London, UK



KEY BENEFITS

- Meet leaders and future business partners from the polymer electronics industry
- Learn how OLEDs are being used to help the medical profession
- Gain an insight into the financial future of this exciting industry

SPEAKERS INCLUDE:

Keynote Speaker:

Professor Sir Richard Friend
University of Cambridge
Cavendish Laboratory

Wolfgang Mildner
Managing Director, **PolyIC**

Stephen Clemmet
CEO, **Polymertronics Ltd**

Dr Peter Harrop
Chairman, **IDTechEx**

Dr Tom Taylor
Director, **PETEC**

Media Partners:



ElectronicsWeekly

Register at www.theiet.org/polymer-electronics

INTRODUCTION

This thought provoking Polymer Electronics seminar has been created to challenge the way you design, manufacture and prototype polymer electronics in the future. The seminar will give you a detailed overview of this rapidly developing market and where it is heading over the next 20 years.

Polymer Electronics is a global multi-million pound industry which is continuously making technological advances that directly affect the way we live our daily lives.

This seminar will be delivered by leading experts with a wealth of knowledge and expertise in creating new technologies, products and companies, including the co-founder of Plastic Logic who built the world's first plastic electronics factory in Dresden, Germany.

Learn from their successes and obtain key information on the solutions being created to overcome challenging problems with printed electronics. PolyIC will provide an insight into how they take a design idea into production and the hurdles they encounter sourcing materials along the way.

Delegates at the Polymer Electronics seminar will receive a unique opportunity to obtain the latest information on the technology being developed and the products being created, prototyped and tested.

WHO SHOULD ATTEND?

All those who have a direct involvement in and need to improve manufacturing, processes and operations, including those working in the following areas:

- processing equipment
- manufacturing equipment
- device testing
- device integration
- research
- academia
- product design and integration.

SPONSORSHIP AND EXHIBITION OPPORTUNITIES

For a more prominent profile, why not become a sponsor? Sponsors will receive a range of benefits designed to raise the profile of their organisation at the event.

Contact: Tanya Thorpe, Sponsorship Executive
T: +44 (0) 1438 765 676 E: tthorpe@theiet.org

KEYNOTE SPEAKER

Professor Sir Richard Friend

Department of Physics, Cavendish Laboratory, University of Cambridge

Co-founder of Plastic Logic and Cambridge Display Technology



Professor Sir Richard Friend has pioneered the study of organic polymers as semiconductors, and his research group has demonstrated that these materials can be used in a wide range of semiconductor devices, including light-emitting diodes and transistors.

In 1994 he co-founded Cambridge Display Technology Ltd, which is developing light-emitting polymer displays being used in a number of consumer products. In 2000, Professor Sir Richard co-founded Plastic Logic Ltd to develop directly-printed polymer transistor circuits, which are now being developed as flexible active-matrix backplanes for e-paper displays.

ORGANISED BY

The IET Microsystems and Nanotechnology Network:

www.theiet.org/nanotechnology

The Institution of Engineering and Technology (IET) is the largest professional engineering society in Europe, and the second largest in the world, with 150,000 members worldwide.

The Institute of Nanotechnology www.nano.org.uk

Established in 1997, the Institute of Nanotechnology (IoN) works closely with government, industry, and academia to provide world class information on nanotechnology developments and how these can benefit wider society.

EVENT PROGRAMME

TUESDAY, 21 APRIL 2009

09:00 Registration and Refreshments

09:30 **Welcome from the Chair**
Dr Mark Morrison, CEO
Institute of Nanotechnology

09:45 **Keynote Presentation**

Professor Sir Richard Friend
University of Cambridge
Cavendish Laboratory

10:30 Refreshments

11:00 **Printed RFID - from Vision to Production**
• Challenges in materials, technology and production
• Current status and recent results of PolyIC
• First applications and pilot projects
• Roadmap of future projects
Wolfgang Mildner, Managing Director
PolyIC

11:45 **OLEDs for Medical Photodynamic Therapy**
• Challenges faced in developing plastic electronics for photodynamic therapy
• How OLEDs can be used in flexible light-plasters to treat skin conditions
Stephen Clemmet, CEO
Polymertronics Ltd

12:30 Lunch

13:30 **Polymer Electronics for Point of Care Diagnostics**
• Overview of microfluidic devices
• Organic photodiodes as sensitive photodetectors
• Microfluidic devices with integrated polymer light sources and photodetectors
John deMello, Reader
Imperial College London
Co-Founder, **Molecular Vision**

CONDITIONS OF BOOKING

Form should be received no later than Tuesday, 14 April 2009. All participants registering less than two weeks before the date of the event are advised to bring a copy of their registration form with them.

CANCELLATION

In the event of cancellation and provided that written notice is received seven days prior to the event, a refund of 50% of the total fee will be made. If no notice of cancellation is received, no refund can be made. The Institution of Engineering and Technology reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. Details of event changes or cancellations are available by phoning +44 (0) 1438 767 343.

14:15 **Smart Packaging: Printed Intelligence in High Volume Packaging**
• Packaging trends, needs and opportunities for first passive components
• New smart functionalities in emerging printed intelligence technology
• Adoption of active devices in high volume applications
Jani-Mikael Kuusisto
Business Development Manager
VTT – Centre for Printed Intelligence

15:00 Refreshments

15:30 **Developing a Printable Electronics Industry in the UK**
• The new technology, why customers like it
• Challenges to make products that people will buy
• Creating a supply chain in the UK: strengths, gaps and opportunities
Dr Tom Taylor, Director
PETEC

16:15 **Challenges of the New Electronics**
• Global market for printed and potentially printed electronics 2009–2029
• Technical challenges for those that are primarily organic and solutions
• Where thin film inorganic electronics is winning and why
Dr Peter Harrop, Chairman
IDTechEx

17:00 Close

Register before Tuesday 17 March for a discount on your delegate fee

www.theiet.org/polymer-electronics

NAME SUBSTITUTIONS

Name substitutions are accepted at any time by fax: +44 (0) 1438 765 659 or email: events2@theiet.org

SUPPORTING ORGANISATIONS

Members of supporting organisations who can provide evidence of their affiliation will be admitted at members' rates.

DELEGATES WITH SPECIFIC REQUIREMENTS

The Institution of Engineering and Technology aims to offer fully accessible events to all its delegates. Please help us to accommodate any individual needs that you may have by attaching a note to the registration form. We will contact you to discuss this as necessary.



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REGISTRATION FORM

DATA PROTECTION

The information that you provide to the IET will be used to ensure we provide you with products and services that best meet your needs. This may include the promotion of specific IET products and services by post and/or electronic means. By providing us with your email address and/or mobile telephone number you agree that we may contact you by electronic means. You can change this preference at any time by visiting www.theiet.org/my
If you consent to your details being passed on to the event sponsor(s) please tick here

5 Easy Ways to Register

- 1 Online:**
www.theiet.org/polymer-electronics
- 2 Fax:**
+44 (0) 1438 765 659
- 3 Phone:**
+44 (0) 1438 767 343
- 4 Email:**
events2@theiet.org
- 5 Post:** Finance Dept,
The Institution of Engineering
and Technology, PO Box 96,
Stevenage, Herts SG1 2SD

Delegate Details (for ease, attach your business card) – Please photocopy form for multiple bookings

(Mr/Mrs/Ms/Miss/Dr) Family Name First name
Business E-mail Tel
Fax Job Title

Company Details

Name of Company
Department Address

City Postcode Country
Nature of Company/ Business
Institution Membership Number (if applicable) Dietary or other requirements
Member? Yes No I heard about this event by: Flyer in post Email Advert (Institution Publication) Advert (other) The IET Website Other

Prices and Payment Information

EARLY BIRD REGISTRATION (On or before 17 March 2009)		£	p
Member	£265.00 (+ £39.75 VAT= £304.75)		
Non-member	£335.00 (+ £50.25 VAT= £385.25)		
Retired/Student*	£110.00 (+ £16.50 VAT= £126.50)		
STANDARD REGISTRATION (After 17 March 2009)		£	p
Member	£315.00 (+ £47.25 VAT= £362.25)		
Non-member	£385.00 (+ £57.75 VAT= £442.75)		
Retired/Student*	£110.00 (+ £16.50 VAT= £126.50)		
TOTAL REMITTANCE			

Payment must accompany this registration form.

Registration will only be confirmed on receipt of the full payment.
Payment via purchase order is not acceptable.

- Enclosed is a cheque made payable to "IET" and crossed.
 Payment by bank transfer (BACS): For information on how to pay by bank transfer call Customer Services on +44 (0) 1438 767 343

Credit card

Valid from __/__/__ Expiry __/__/__ Issue No.

3 or 4 digit Card Security Code (CSC)

Cardholder's name Tel No.

Credit card billing address Postcode

Signature Date

* ALL STUDENTS MUST HAVE THEIR APPLICATIONS ENDORSED BY THEIR PROFESSOR OR HEAD OF DEPARTMENT

Registration fees include attendance at the sessions, a copy of the CD-ROM, morning and afternoon refreshments and lunch.

Payments not received before the event may result in entry being denied.

BANK TRANSFERS

Bank Transfers (BACS) can be made to Barclays Bank Plc, UK Bank, 1 Churchill Place, London E14 5HP. Account No: 50480606 Sort code: 20-65-82. IBAN GB53 BARC 2065 8250 4806 06. A copy of the draft must accompany this form. UK Institution of Engineering and Technology VAT Reg No: 240-3420-16. The Institution of Engineering and Technology is registered as a Charity in England & Wales (no 211014) and Scotland (no SC038698)