



Engineering the future

3G 2004

Fifth IEE International Conference on 3G Mobile Communication Technologies – The Premier Technical Conference for 3G and Beyond

18 – 20 October 2004
The IEE, Savoy Place, London, UK

<http://conferences.iee.org/3G2004/>

Keynote Speakers

- Lord Currie, Chairman, Ofcom, UK
- Dr Howard Sherry, Chief Scientist, Telcordia Technologies, USA
- Dr Mikko Uusitalo, Head of International Cooperation, Nokia Research Center, Finland
- Nigel Hall, Director of 3G Launch, Orange, UK

3G 2004 Features

- Nokia Best Paper Prize
- The IEE Sir Eric Eastwood Lecture and Dinner - Tuesday, 19 October 2004
"Intimate Interfaces" given by Simon Jones PhD, DSc, CEng, Managing Director,
MediaLab Europe, Ireland

Organised by the IEE Communication Networks and Services Professional Network

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About 3G 2004

3G 2004 is the premier forum for 3G mobile and related technologies, now in its fifth successful year. The conference will be held at the prestigious headquarters of the IEE on the bank of the River Thames. It will bring together researchers and technologists from manufacturers, service providers, operators, application developers, regulators and standards bodies to share the latest information and promote the development of 3G services, applications, systems, devices and networks.

The conference is a three-day event with a balanced structure consisting of daily keynote presentations followed by parallel technical sessions and panel discussions by leading experts and influencers on 3G applications and technologies. Several hundred delegates from around the world are expected to attend. There will also be a significant number of invited papers from key industry stakeholders.

In recognition of the progress in the mobile industry towards implementation and launch of 3G services, this conference has an agenda relevant to industry delegates with emphasis on the practical aspects of networks and systems and on 3G services and applications.

For the first time at the 3G series of conferences, the Sir Eric Eastwood Lecture will be given on the middle evening of the conference, followed by a Dinner in the Riverside Dining Room, Savoy Place.

Who Should Attend

3G 2004 will bring together technical experts concerned with all aspects of the realisation of 3G systems, services and applications.

Attendees will include:

- Equipment manufacturers
- Network operators
- Service providers
- Application developers
- Device suppliers
- Researchers
- Universities
- Regulators and users who are actively engaged in the development and deployment of 3G technologies, as well as those who are new to this topic area.

Networking opportunities include a Welcome Drinks Reception held in the exhibition area of the conference and a Conference Dinner.

For a detailed programme, including the papers to be presented, please visit our website at:


<http://conferences.iee.org/3G2004/>

Front cover image: View from balcony of the Riverside Dining Room of the IEE, Savoy Place by night. copyright The IEE



Programme



Monday, 18 October 2004

08.30	Registration and Coffee	13.40	2a – Signal Processing (Invited Session) Session Chair: Lutz Lampe, University of British Columbia, Canada
10.00	Conference Opening and Keynote Presentation I Conference Chair: Marwan Al-Akaidi, De Montfort University, UK		2b – UMTS II Session Chair: Chris Wildey, UK
10.05	3G 2004 Opening Address Lord Currie, Chairman, Ofcom, UK		2c – Application Environments & Protocols Session Chair: Stephen McCann, Roke Manor Research Ltd, UK
10.20	Keynote Presentation I The Changing Role of Mobile Networks and Services – What Does It Mean? Howard Sherry, Telcordia Technologies, USA 	15.20	Refreshments
11.00	1a – MIMO (Invited Session) Session Chair: Gerhard Bauch, DoCoMo Communications Laboratories Europe GmbH, Germany	15.50	3a – Space-Time Processing Session Chair: Lajos Hanzo, University of Southampton, UK
	1b – UMTS I Session Chair: Peter Ramsdale, Peter Ramsdale Ltd, UK		3b – UMTS III Session Chair: Manuel Dinis, Portugal Telecom Inovacao S A, Portugal
	1c – WLAN Session Chair: Ian Oppermann, University of Oulu, Finland	17.30	3c – Beyond 3G Evolution Session Chair: John Thompson, University of Edinburgh, UK
12.40	Lunch		Welcome Drinks Reception

Tuesday, 19 October 2004

09.00	Keynote Presentation II WWRF Vision for Future Mobile Communications  Mikko Uusitalo, Nokia Research Center, Finland		6c – System Planning & Performance Session Chair: To be advised
09.40	4a – 3G Evolution Systems (Invited Session) Session Chair: Young Yoon / Anthony Soong, Ericsson, USA	15.25	Refreshments
	4b – UMTS IV Session Chair: Trevor Gill, Vodafone Ltd, UK	15.50	7a – Wireless Video Session Chair: Fred Harrison, O2, UK
	4c – Trials and Implementations Session Chair: Andrew Aftelak, Motorola Labs, UK		7b – Security and M-Commerce Session Chair: Pat McAndrew, Freescale Semiconductor, UK
11.20	Refreshments		7c – Spectrum Management and Performance Engineering Session Chair: To be advised
11.45	5a - Panel Session I - Making Sense out of the 3G Technology Roadmap Session Chair: Fred Harrison, O2, UK	17.30	Registration and refreshments for The IEE Sir Eric Eastwood Lecture
12.45	5b – Poster Session I	18.00	The IEE Sir Eric Eastwood Lecture 2004 "Intimate Interfaces" by Simon Jones PhD, DSc CEng Managing Director, MediaLab Europe, Ireland
12.45	Lunch	19.30	Pre-dinner drinks
13.45	6a – Location & Positioning (Invited Session) Session Chair: Stefan Kaiser, DLR – German Aerospace Center, Germany	20.00	Sir Eric Eastwood and 3G 2004 Conference Dinner Chaired by Peter Ramsdale, Peter Ramsdale Ltd, UK
	6b – MIMO II Session Chair: To be advised		

Wednesday, 20 October 2004

09.00	Keynote Presentation III Nigel Hall, Director of 3G Launch, Orange, UK 	12.45	9b – Poster Session II
09.40	8a – Multimedia Messaging, Broadcast and Multicast Session Chair: David Mulvey, Logica, UK	12.45	Lunch
	8b – Coverage & Capacity Planning Session Chair: Les Barclay, Barclay Associates Ltd, UK	13.45	10a – Mobile Multimedia Services Session Chair: Alastair Angwin, IBM UK Laboratories, UK
	8c – IP-based Mobile Networks Session Chair: Latif Ladid, President, IPv6 Forum; Chair, EU IPv6 Task Force, Luxembourg		10b – Mobility Management & Handover Session Chair: Paul Reynolds, Orange SA, UK
11.20	Refreshments		10c – QoS Techniques Session Chair: Rahim Tafazolli, University of Surrey, UK
11.45	9a - Panel Session II - UWB Session Chair: Ian Oppermann, University of Oulu, Finland	15.30	Closing Plenary and Nokia Best Paper Prize award Conference Chair: Marwan Al-Akaidi, De Montfort University, UK
			

The above programme is subject to change

The IEE is not, as a body, responsible for the views or opinions expressed by individual authors or speakers.

THE IEE Sir Eric Eastwood Lecture and Dinner 2004

"Intimate Interfaces" by Simon Jones PhD, DSc, CEng, Managing Director, MediaLab Europe, Ireland - The European Research Partner of the MIT Media Lab

The developed world generally and Europe especially benefit from rich digital connectivity and a road map to deliver further improvements in bandwidth and accessibility. Lagging behind this are applications and appliances to connect to this network that effortlessly and instinctively meet human needs. Media Lab Europe, a 100-strong research group based in Dublin, Ireland, aims to address that need.

Our view is that innovative thinking and practical examples are needed in this area. The Media Lab Europe approach is based around the idea of 'Intimate Interfaces'.

Simon Jones PhD, DSc, CEng, Managing Director, MediaLab Europe, Ireland

Simon Jones is the Managing Director of Media Lab Europe. With 20 years of success in generating and deploying innovative R&D, Simon is a significant figure in the European Technology Landscape.

In the mid-1980's Simon was one of the first to emerge from UK universities with research skills in Microelectronics Systems Design. Five years after his PhD he was awarded a full Professorship at one of the UK's largest Engineering Research Institutions - Loughborough University, where he held the ARM/Royal Academy of Engineering Research Chair in Embedded Microelectronic Systems. He was also awarded at the age of 31 the British Association for the Advancement of Science 'Brunel Prize' awarded to 'an outstanding academic in engineering under the age of 40'. Simon is a fluent German speaker with a degree-level qualification in German Language and Business. He was awarded in 1998 'The Siemens/German Research Ministry Research Chair' at the Technical University of Dresden working that year with Siemens to advance new computer systems for the consumer electronic market and he continues to be well connected with European industry.

The lecture is free to attend. A dinner, served in the IEE's Riverside Dining Room, over the River Thames, will follow the lecture. Why not take the opportunity to meet fellow engineers and share experiences with those with similar interests in an informal setting? Partners, colleagues and clients are all welcome. Please complete the relevant section on the 3G 2004 conference registration form.

For further information on the lecture please visit
<http://conferences.iee.org/3G2004/eric-eastwood.htm>



3G 2004 ORGANISING COMMITTEE

Professor Marwan Al-Akaidi, De Montfort University, UK *Chairman 2004*
Professor Paul Reynolds, Orange SA, UK *Vice-Chairman 2004*
Mr Alastair Angwin, IBM UK Laboratories, UK
Professor Les Barclay, Barclay Associates Ltd, UK
Mr Fred Harrison, O2 plc, UK
Mr Pat McAndrew, Motorola Ltd, UK
Mr David Mulvey, Logica, UK
Dr Gordon Povey, Elektrobit (UK) Ltd, UK
Professor Peter Ramsdale, Peter Ramsdale Ltd, UK
Professor Rahim Tafazolli, University of Surrey, UK
Dr Chris Wildey, UK

3G 2004 TECHNICAL PROGRAMME COMMITTEE

Professor Lajos Hanzo, University of Southampton, UK *Chairman 2004*
Dr Andrew Aftelak, Motorola Labs, UK
Professor Hamid Aghvami, King's College, London, UK
Mr Simon Atkinson, Chameleon-Microsystems, UK
Dr David Cooper, 3, UK
Professor David Crawford, Harris Broadcast Europe, UK
Mr Manuel Dinis, Portugal Telecom Inovacao S A, Portugal
Mr Trevor Gill, Vodafone Ltd, UK
Professor Bahram Honary, Lancaster University, UK
Mr Latif Ladid, Ericsson Telebit A/S, Luxembourg
Dr Werner Mohr, Siemens AG, Germany
Dr Ian Oppermann, University of Oulu, Finland
Professor Ramjee Prasad, Aalborg University, Denmark
Dr Simon Saunders, Cellular Design Services, UK
Mr John Thompson, University of Edinburgh, UK
Dr Walter Tuttlebee, Mobile VCE, UK
Dr Sunil Vadgama, Fujitsu Laboratories of Europe Ltd, UK
Prof. Dr.-Ing. Bernhard Walke, Aachen University of Technology, Germany
Mr Andrew Watson, UK
Mr Zoran Zvonar, Analog Devices, USA

CONFERENCE ORGANISERS

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3G 2004 is supported by:



Booking Information

CONFERENCE REGISTRATION FEES

Conference Registration fees entitle registrants to attend the main conference, receive a copy of the Conference Proceedings and CD-ROM and include lunches, the provision of morning and afternoon refreshments plus the Welcome Drinks Reception.

Sir Eric Eastwood Lecture and Dinner on Tuesday, 19 October 2004. The Lecture is free to attend and is available for conference and non-conference delegates. The IEE Sir Eric Eastwood Dinner is an additional cost (see registration form). Guests are very welcome at this event. Please contact the organisers if you wish to purchase a table.

DISCOUNTED REGISTRATION FEES

Members of the IEE and all Associated Societies are entitled to a Member discounted registration fee. Associated societies are: IEEE, IPv6, GSA, UMTS Forum, ETSI/3GPP. In addition members of EUREL and IIE receive member discounts.

If you would like to find out more about becoming a member of the IEE, view membership subscription fees or use the on-line membership application facility, please visit: www.iee.org/membership/.

You can also apply for Affiliate membership (for those who are not qualified electrical engineers, or who do not work in engineering, but have an interest in IEE activities).

PAYMENTS & CANCELLATIONS

Payment for registration is required in advance of the conference and can be made by credit card (Access, American Express, MasterCard, Visa), BACS or cheque made payable to IEE and crossed.

In the event of cancellation, and provided that written notice is received seven days prior to the event, a refund of 50% of the registration fee will be made. If no notice of cancellation is received, no refund can be made.

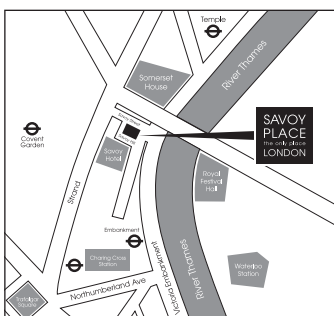
VALUE ADDED TAX

The amounts shown for VAT are calculated at the current rate of 17.5%. If the VAT rate is altered as a result of government legislation, all fees and charges will be adjusted.

INSURANCE

The organisers cannot be held responsible for accidents to conference registrants or for damage to or loss of their personal property howsoever caused. Registrants should therefore make their own insurance arrangements.

General Information



VENUE

3G 2004 will be held at the IEE, Savoy Place, London, which provides high quality conference facilities and enjoys a unique central London location overlooking the River Thames. The IEE building is within easy walking distance of the underground network, close to the lively Covent Garden area and other parts of the West End with its many restaurants and high standard hotel accommodation.

TRAVEL

The IEE is situated at Savoy Place, off Victoria Embankment near to Waterloo Bridge. Savoy Place is within easy walking distance of Charing Cross and Waterloo Mainline Stations as well as the following Underground Stations:

Charing Cross (Bakerloo and Northern Lines)

Covent Garden (Piccadilly Line)

Embankment (Bakerloo, Circle, District and Northern Lines)

Temple (Circle and District Lines)

A wide number of bus routes also serve the IEE, stopping in the Strand nearby.

Registrants are strongly advised not to travel by car, as the area is a restricted parking zone. There is no parking available within Savoy Place. If travelling by car is unavoidable, the nearest National Car Parks are situated at St Martins Lane Hotel, 45 St Martins Lane, WC2N and Drury Lane. Please refer to www.ncp.co.uk/ and type 'Savoy Place' in the search function and click on 'Among London Streets' for a map.

WORKING LANGUAGE

The working language of the conference is English and will be used for all printed material, presentations and discussions.

REGISTRATION INFORMATION

Delegates are asked to register with the 3G 2004 conference organisers upon arrival at IEE Savoy Place. The registration desk will be located in the Common Room on the ground floor and will be open at the following times;

Monday, 18 October 08.30 – 18.00 hrs

Tuesday, 19 October 08.30 – 18.30 hrs

Wednesday, 20 October 08.30 – 16.00 hrs

The IEE Sir Eric Eastwood Lecture Registration 17.30 – 18.00 hrs

Please note that your name badge must be worn to obtain admission to the conference sessions, the exhibition, the Sir Eric Eastwood Lecture and Dinner and for the service of lunches and refreshments.

Sponsorship & Exhibition Packages Available

SPONSORSHIP

There are a limited number of sponsorship opportunities still available designed to help promote your organisations profile at the event and within the market place.

EXHIBITION

The 3G 2004 exhibition will be open during the conference. The exhibition will take place in the Common, Lancaster and Maxwell Rooms; all lunches, refreshments and the Welcome Drinks Reception will also be held here giving exhibitors the opportunity to meet and network with delegates in an informal environment.

Confirmed Exhibitors at time of print are:

Anritsu, Arieso Ltd, Bechtel Telecommunications, Elektrobot Ltd, Freescale Semiconductor Inc., Orange, Symmetricom, Yokogawa Europe BV.

Full details of costs and how to sponsor the conference can be viewed by visiting the 3G 2004 website: <http://conferences.iee.org/3G2004/>. If you would like to discuss the possibility of sponsoring or exhibiting at 3G 2004 further, please contact the 3G 2004 conference organisers.

ACCOMMODATION

BSI (Booking Services International Limited) has been appointed by the IEE to assist delegates attending the conference. An allocation of rooms has been held in the vicinity at specially negotiated reduced rates. To view the hotels on-line or to make a reservation please visit the web site book@bsi.co.uk or contact them on :

Tel: +44 (0)870 830 4269

Fax: +44 (0)870 127 8070

Please quote the reference IEEDEL01

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www.iee.org/events



3G 2004

Fifth IEE International Conference on 3G Mobile Communication Technologies – The Premier Technical Conference for 3G and Beyond

The IEE, Savoy Place, London, UK. 18 – 20 October 2004

One form per person only (forms may be photocopied)

Registration (Please complete in CAPITALS)

Family Name																Title (Mr, Mrs, Miss etc)					
Name											Job Title										
IEE/IIE/Other membership											Membership No										
Organisation (for name badge)																					
Address																					
Town/City						Postcode						Country									
Tel											Fax										
Email																					

Do you have any dietary or other requirements? _____

How did you hear about this event? _____

Direct Mail Word of Mouth Colleague Email Other _____

Fees and charges (Please complete the appropriate box)

Registration fees include attendance at the sessions, a copy of the proceedings, morning and afternoon refreshments & lunch each day and Welcome Drinks reception. The Sir Eric Eastwood Dinner is not included in the Conference Registration

Early Bird Rate until 18 Sept 2004	Charge per person	£	p
Member	£445.00 (+ £77.88 VAT)		
Non-Member	£555.00 (+ £97.13 VAT)		
Member (Retired, Student **)	£195.00 (+ £34.13 VAT)		

Standard Rate from 19 Sept 2004	Charge per person	£	p
Member	£495.00 (+ £86.63 VAT)		
Non-Member	£595.00 (+ £104.13 VAT)		
Member (Retired, Student **)	£225.00 (+ £39.38 VAT)		

Sir Eric Eastwood Lecture (19 Oct)	Charge per person	£	p
Lecture Only	Free entry		
Lecture & Dinner Member *	£40.00 (+ £7.00 VAT)		
Lecture & Dinner Non-Member	£45.00 (+ £7.88 VAT)		

Total Remittance

* Members are entitled to bring 1 guest at the member rate for the Dinner only
** All students must have their applications endorsed by their Professor or Head of Department

Payment Details Payment must accompany this registration form. Registration will only be confirmed on receipt of the full payment.

PLEASE NOTE: Payment via Purchase Order is no longer accepted

Please indicate the method of payment:

Cheque Credit Card BACS Cheques should be made payable to the "The IEE" and crossed.

Visa MasterCard AMEX Switch Issue No _____ Valid From _____

Card Number _____ Expiry Date _____

Cardholder's Name _____

Registered address of Cardholder/Invoicing Address (if different from above)

Bank Transfers (BACS) can be made to Barclays Bank Plc, Pall Mall Corporate Banking Group, 50 Pall Mall, PO Box 15162, London SW1A 1QB. Account no: 50480606 Sort code: 20-65-82. Application forms should be completed and returned to Finance Department, The IEE, PO Box 96, Stevenage, Herts, SG1 2SD and must be accompanied with the correct payment. Attendance at the event will only be confirmed on receipt of the full payment.

Data Protection

Information provided by you on this form will be processed by the IEE and used for the purpose of the goods and services ordered by you, and for billing accounts.

If you are an IEE member and do not want to hear about similar events and services provided by the IEE, please tick here

If you are not an IEE member and would like to hear about similar events and services provided by the IEE, please tick here

Save time - register online: <http://conferences.iee.org/3G2004/>

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