

## President



### **Dr M J Short FEng BA**

Mike's career spans 37 years in Electronics and Telecommunications, with the last 24 years in Mobile Communications. After working for Philips , Landis and Gyr, and BT , he was appointed in 1989 as Director of Cellnet ( now part of Telefonica and branded O2 UK ) dealing with major infra-structure investments and commercial agreements. In 1992 the focus moved to launching Cellnet's GSM service and establishing Roaming Agreements. He also handled international business development and helped to win overseas mobile licenses and undertook some of the first mobile training in India.

He was elected Chairman of the Global GSM Association for 1995/96 and served on its Executive Board for 5 years. In February 1996 during his tenure he chaired the first of 10 annual Mobile Congresses in Cannes, France, started the annual GSM awards and GSM A website, He helped create the GSM A Regional interest groups and a stronger data focus on texting and mobile email. He was a Board member of the WAP FORUM and founder Board member of Open Mobile Alliance (OMA), as well as being active in the UMTS FORUM. Mike also chaired the UK Mobile Data Association 1998 - 2008, and was until recently its Honorary President.

He has also served as a member of the UK Home Office Internet Task Force, UK OSAB (Ofcom Spectrum Advisory Board) , Home access to Broadband committee, the UK Government Trade and Investment ICT Sector Advisory Board and its Advisory committee on London 2012. He has chaired since its inception in 2007 the Steering Board for TSB supported Digital Communications KTN ( now ICT KTN ). He has been Board member of UK Child Council for Internet safety and an IET Trustee since 2008.

After looking after Cellnet's 3G strategy and external relations he was appointed VP Technology for O2 Group in 2000, prior to demerger from BT, and its later acquisition by Telefonica.

Mike's focus today is on European Public policy that relates to innovation, whether research, the responsible use of mobiles or new business development . This includes a focus on Advanced mobile services and data applications including Mobile Learning, Smart Metering, Transport Telematics and Connected Healthcare.

In the last 5 years Mike has also been appointed Visiting Professor at Surrey University, De Montfort, Lancaster, and Leeds Universities and to the Boards of Coventry University and Ravensbourne College. He was awarded an honorary Doctorate in 2008 for services to the Mobile Communications industry. He is a Fellow of IET/BCS/RGS/ Royal Academy and a Member of the Royal Television Society.

## Deputy Presidents



### **Mr B P S Brooks BSc(Eng) FCGI**

Barry Brooks (Electrical Engineering, Imperial College) had a successful Royal Navy career – submarine electrical and nuclear propulsion engineer, R&D projects, and Whitehall (MOD strategy, resources and planning, and Cabinet Office (working with government departments)). As Commodore, working with industry, he helped to design and improve MOD's Smart Acquisition project management. Now in his second career, he provides director-level support to make complex, high-risk, high-value engineering, procurement and change programmes successful, gaining an extensive range of contacts and invaluable insights into engineering issues faced by global industry.

As Chairman of GB&I Regional Board, Barry chairs regional consultation conferences with active member communities and helps Global Operations and Regional Boards to become more effective. He is a Professional Registration Assessor/Interviewer and IET Connect Local Representative.

Barry chaired Somerset & West Wiltshire Committee. He helped to strengthen Council's role in advising the Board of Trustees. As Trustee/Vice-President (2005-09), chaired Membership & Regions Board, sponsored LN Support Project, led new IET Governance implementation, championed embedding Young Professionals into member-staff Boards, applying the "one-team working together" approach to deliver IET's Plan. He is active in Worshipful Company of Engineers (administering Environmental Engineering Award), City & Guilds College Association (building closer alumni/student links).



### **Professor A Hopper CBE FREng FRS**

Andy Hopper is Professor of Computer Technology at the University of Cambridge and Head of the Computer Laboratory. His research interests include networking, pervasive and sentient computing, and using computers for assuring the sustainability of the planet. He is a Fellow of Corpus Christi College.

Andy Hopper has pursued academic and industrial careers in parallel. In the academic career he has worked in the Computer Laboratory and the Department of Engineering at Cambridge. In the industrial career he has co-founded a dozen companies, two of which floated on stock markets. He is currently chairman of RealVNC and Ubisense. He has been an IET Ordinary Trustee (2003-2006) and a member of the IT Sector Panel (2002-2007).

Professor Hopper received the BSc degree from the University of Wales Swansea (1974) and the PhD degree from the University of Cambridge (1978). He is a Fellow of the Royal Academy of Engineering (1996) and of the Royal Society (2006). He was made a CBE for services to the computer industry (2007).

## **Vice Presidents**



### **Mr S R Burgin BSc DMS**

Steve currently holds the position of Alstom UK Country President and Director. Alstom, a global and world leading engineering company, employs 7000 people in the UK serving the power generation, transmission grid and rail transport sectors. He started his career as a student apprentice with GEC whilst studying a degree in Electrical Engineering and then gained his professional experience in technical, operational, commercial and general management roles, both in UK and internationally. In his current role, he has sat on various commissions concerning the long-term development of UK infrastructure, addressing engineering skills, the low carbon economy and engineering construction. He chairs the Alstom Defined Contribution Pension Trust.

Experience from outside the private sector has been gained as Chair of the Board of Governors of Staffordshire University, Deputy Chair of Stoke and Staffordshire Local Enterprise Partnership and sitting on the Audit Committee of the IET.



### **Mr M D Carr FEng BSc(Eng) HonDTech**

Until November 2008 Mike was BT's Chief Science Officer, and responsible for the company's world-leading Research Labs and Commercial Exploitation Unit, including Patent Licensing and Corporate Venturing activities globally. Mike joined BT as a Technician Apprentice in 1972. He has a first class honours degree in Communication Engineering and joined the Visual Communication Research Division at BT Labs in 1980. During his first 15 years with BT's Labs his career has focused on the research, development and practical design of real-time audio/visual and multimedia communications systems.

He has several patents to his name in the field of video compression, and is the holder of two prestigious BT awards; the Martlesham Medal for R&D (1992) and the BT Gold medal (1994) for leading multimedia product developments. In 1998 he was elected President of the Digital Audio-Visual Council (DAVIC) a non-profit association based in Switzerland and

representing over 200 companies in more than 25 countries, focused on developing specifications to maximize inter-operability of audiovisual systems.

From 1999 Mike was based in Silicon Valley, California, USA where he established BT's US Technology office and Corporate Venturing activity. He returned to the UK in 2001 to lead BT's Research & Venturing division. He was awarded an Honorary Doctorate of Technology from the University of Plymouth in September 2009. He is currently a Non Executive Director of Ordnance Survey and a Council Member of the EPSRC.



**Ms N W Climer BSc**

Naomi Climer was appointed Vice President of Sony Professional Solutions Europe in May 2006. She is responsible for leading the continued expansion of Sony's European media, broadcast and business-to-business operations, including digital signage, digital cinema and healthcare solutions, network video monitoring and video communication with the product brand "IPELA".

As well as growing the business, Naomi also plays a major role in the delivery of solutions that require the expertise of 'Sony United', such as sustaining the rate of adoption of High Definition in the professional world, establishing Sony as IPTV and mobile TV innovators as well as building the strongest possible business case for migration to digital cinema across Europe. Naomi joined Sony Europe in 2002 as Director of Sony Professional Services, managing a team of around 100 staff, based in 15 countries and operating in 108 territories across Europe, the Middle East and Africa. The team focuses on the breadth of Sony's service offering, which includes end-to-end AV/IT consultancy, project management, training, systems integration and software development. She then took on an additional position of Head of Media Sales for Western Europe. Complementing her Professional Services role and drawing on her rich broadcast experience, Naomi assumed responsibility for the delivery of Sony professional products, solutions and services to the broadcast community in 15 regions. Naomi came into the broadcast industry when she joined the BBC in 1987 as a broadcast engineer. From the BBC she went on to manage a range of IT software development projects for independent radio stations, broadcasters and IT-based companies. A return to the BBC came in 1996, first at BBC World Service and then at Television Centre where she became the Controller of Technology for BBC News - responsible for the long-term technology strategy within News across Radio, Television and New Media. From the BBC Naomi moved to ITVdigital in 2000 as Director of Technical Operations. Naomi was responsible for the technical operation at ITV digital from broadcasting through to billing, subscription management to office based IT systems.



**Dr S C A Harrison BSc PhD**

Simon is a director of Mott MacDonald's global energy business, currently leading activities across all renewable energy technologies, energy environmental issues and energy policy, finance and regulation, but with previous background in transmission planning and the development of privately financed fossil fuel generation projects. His work is highly international and has included projects in Europe, South and South-east Asia, the Middle East and the Americas. Simon holds BSc and PhD degrees from Southampton University, UK, at which he is also a visiting professor.

Simon is Chairman of the IET's Energy Policy Panel, leading the IET's relationship with the UK government in the energy sector and working to ensure that energy policy decisions take proper account of engineering and project delivery issues. He is also the interim chair of the IET's Energy Sector, bringing together and developing all IET activities in energy under a single umbrella to allow members and others to benefit from a more holistic view.



**Eur Ing Professor B E Jones BSc(Eng) MSc PhD DSc**

As the recent Chairman of the Awards and Prizes Committee Barry has introduced and developed the new IET Programme of Achievement Certificates for award to outstanding individual engineers, technologists and technicians in any discipline, to be awarded by the Local Networks with a start planned from January 2011.

His other recent IET activities include membership of the Prestige Lectures Committee and the Knowledge Management Board. Barry is a past member of Council, past Chairman of the Measurements TPN and past Vice-Chairman of the IEE Science, Education and Technology Divisional Board. Barry started his engineering career at GCHQ, Cheltenham. In his academic career he has held engineering posts in measurement science, sensors and instrumentation at Manchester University, UMIST and Brunel University, and has worked for the Open University.

In 1986 he became the first person in the UK to hold a Hewlett Packard Professorship. He founded and then directed the Brunel Centre for Manufacturing Metrology at Brunel University for 21 years, during which time his research work was strongly supported by government and over 30 industrial companies and international organisations. Barry was founder and is a director of two engineering start-up companies in the UK. He is now Emeritus Professor of Manufacturing Metrology at Brunel University.

Barry has supervised some 100 successful research theses and dissertations. Publications include 350 papers and patents, 5 books, senior editorship of the Sensors Series (over 20 books published by the Institute of Physics and now CRC-Taylor & Francis Press). In 1995 he was presented with the UK Metrology for World Class Manufacturing Award.

In 2001 Barry was awarded an honorary doctorate from the Technical University of Sofia, Bulgaria. He has held five professional body fellowships. He is a previous Council member and Journal associate editor for the Institute of Measurement and Control. Barry was honorary editor of the Journal Measurement Science and Technology and founded the Instrument Science and Technology Group of the Institute of Physics.



### **Professor W T Webb FEng BEng MBA PhD**

William graduated from Southampton University with a BEng in Electronic Engineering and a PhD in cellular communications in which he invented the concept of variable level modulation – now used in almost all wireless communications systems. He then worked for a range of consultancy companies including Multiple Access Communications, Detica and PA Consulting providing advice across the wireless sector. This included developing the concept and standard for the variant of GSM adopted by the European railways and some of the seminal work on the value of spectrum and spectrum pricing.

He worked for Motorola in the US as a Director of Corporate Strategy, working closely with the CEO and his senior team on a number of the major strategic issues to confront the telecommunications industry in the period 1999-2001.

He next took up the role of Head of R&D at Ofcom where he led on technology and spectrum strategy issues including setting Ofcom's research agenda and developing policy in areas such as new ways of licensing spectrum, optimising the use of unlicensed spectrum and enabling new technologies such as ultra wideband and cognitive radio. In 2011 he moved to Neul, a Cambridge company developing machine-to-machine communications systems where he is a co-founder and CTO.

He is a Visiting Professor at Surrey University and DeMontfort University, has published 11 books and almost 100 papers and is the creator and series editor of "Wireless Essentials", a book series published by Cambridge University Press. He was one of the youngest ever Fellows elected to the Royal Academy and also to Fellowship at the IEEE. He has worked closely with Institutions having held many roles in the IET and Royal Academy. He has extensive experience of working across industry, Government and academia, having played key roles in each.

## Ordinary Members



### **Ms J K Bryant FREng**

Jayne is a Fellow of the Royal Academy of Engineering, a Chartered Engineer and a Fellow of the Institution of Engineering and Technology. She has over 35 years experience in engineering, working for various parts of BAE Systems and its former companies.

Jayne began her career as a Software Engineer and quickly worked her way into software management, becoming responsible for a major software development with over 300 engineers before she reached 30. From that point on, her scope increased beyond software and took a more general Engineering and Project Management direction. As Chief Engineer at GEC-Marconi Avionics Maritime Aircraft Systems Division, Jayne was responsible for a wide variety of disciplines producing complex Sonar systems and, following this, led a team responsible for a major multi-billion pound Systems bid.

In 2005 Jayne was working in the Head Offices of Selex Sensors and Airborne Systems as Head of Engineering Strategy and CMMI. In early 2006, Jayne returned to BAESYSTEMS as Engineering Director for BAE Systems, Platform Solutions at Rochester and in mid 2009, moved to BAE Systems Performance Excellence and took over as chair of the EPWG (Engineering Process Working Group), where she was heavily involved in the development and release of the new BAE Systems Engineering and Product Safety Policies. Jayne is now the Engineering and Technology Director for Defence Information Solutions & Services (DISS), BAE Systems.



### **Ms A S K Chan BE**

Alice graduated with a BE(Hons) in Electrical and Electronics, and Master in Engineering Management from the University of Canterbury New Zealand. Her past work experience includes electrical engineering planning, design and implementation. In recent years, Alice has diversified into IT, specialising in SAP.

Alice has been an active IET volunteer since 2001. She was Chair of the Auckland Younger Member Section for 4 years. She was previously Honorary Secretary for the Auckland Local Network and remained a Committee member until recently. She served on the Membership and Regions Board from 2004 to 2007 and was elected to Council last year. She also served on the Asia Pacific Regional Board when it was first formed in 2009.

Alice's aspirations for the IET are to strengthen the support for the volunteer networks and communities globally; ensure the right programmes are formulated to engage with students and young professionals; and build a solid foundation that will enable the institution to meet the future needs of the membership as well as the engineering and technical professions.



**Mr J G P Scott BSc(Eng)**

John has a career background in electrical power engineering and brings a passionate concern to see the sector evolve to meet the challenges ahead. He sees these challenges as global issues that include sustainability and renewable energy, the replacement of time-expired infrastructure, and the critical need for skills and supply chain capabilities.

Following his roles with National Grid as National Control Centre manager and Director of Engineering, John spent six years as the Technical Director of Ofgem the GB regulator. From this he brings a pragmatic mix of technical, managerial and regulatory experience.

John subsequently worked for KEMA Consulting Ltd, assisting clients in the field of power system innovation including smart grids, regulatory frameworks, and asset management.

John is currently an independent consultant.

He believes that the challenges ahead will affect individuals and whole sectors and it's John's conviction that the IET has an essential role to play. John's view is that the Institution must rise to the challenges; it needs to adapt to its new context yet maintain core values and standards. It will need to sharpen its strategic vision, listen to the opinions of members and others, broaden its base of interests, and operate in an open style that brings out the best from all parties.

John is a member of the IET Board of Trustees, the Prestige Lectures Committee, and the Energy Policy Panel. He is also a member of the UK Energy Research Centre Advisory Board and a Visiting Professor at the University of Bath.



**Dr H M Sykulska-Lawrence MEng PhD**

A graduate of St Catherine's College, Oxford, with a degree in Engineering and Material Science, Hanna completed a PhD at Imperial College London while designing and controlling instrumentation for the 2007 Phoenix NASA mission to Mars. In 2005, Hanna won the IEE 'Write Around the World' competition and visited many branches around the world with which she has maintained links.

In 2008, Hanna received two NASA Special Group Achievement Awards for outstanding contributions to the Phoenix mission. She won the IET Young Woman Engineer (YWE) of the Year Award, 2008 and was selected British Female Inventor and Innovator in Industry, 2009 by the British Female Inventors and Innovators Network. Currently at the Physics Department at Oxford University, she continues to design space instrumentation for planetary missions.

In the ambassadorial role of YWE, Hanna promoted the IET by giving many talks and encouraging young people to choose engineering as a career. Hanna believes it is crucial that students and young professionals are actively involved in the IET, so they benefit from career and networking opportunities whilst helping the IET to grow internationally and be supported by its younger members.



**Professor J D M Watson FEng FRSA MSc DPhil**

Jeremy Watson is Arup's Global Research Director, and is responsible for Group research strategy. Independently, he holds the position of Chief Scientific Adviser to the Department of Communities and Local Government. Jeremy has wide professional experience, having undertaken research and technical management roles in industry and academe plus service with government and research councils. His specialities include technology identification, development and transfer, research management and innovation processes. Technically, his expertise includes sensors, control, and power electronics. Current research interests span renewable energy, control for energy efficiency and low carbon buildings. He also has a developing interest in cross-domain research, including how design, regulation and technology can influence the way people use energy.

Jeremy is a Chartered Engineer and a Fellow of the Royal Academy of Engineering and the Royal Society for the Arts. He is also a Fellow of the IET and ICE, and a Visiting Professor at the Universities of Southampton and Sussex. Jeremy is a member of EPSRC Council, a past board member of the Technology Strategy Board, and a member of HEFCE's Research & Innovation Committee.

Jeremy has served the IET for many years, most recently as the founder chair of the Innovation and Emerging Technologies Advisory Panel.



**Professor S Williamson FEng BSc(Eng) PhD DSc(Eng)**

A graduate of the Department of Electrical Engineering at Imperial College, Steve has spent most of his career in universities, punctuated by a spell as Technical Director of Brook Crompton from 1997-2000. In his academic career he has held posts at Aberdeen, Imperial College, Cambridge, and Manchester; moving to his current post at Surrey in February 2009.

He is a member of the Executive of the Defence Scientific Advisory Council, and is chair of Rolls-Royce's Electrical and Controls Advisory Board. He was chair of the RAE2008 Sub-Panel for Electrical and Electronic Engineering, which was tasked with assessing the quality of the research carried out in this discipline in all of the UK's universities.

Steve has been active in the Institution for most of his career, having joined the long defunct London Graduates and Students Section Committee in 1971, and been Chair of the Power Division Board in 1996. More recently he has been Chairman of the Awards and Prizes Working Group and a member of the Energy Sector Panel. Currently he is a member of the Prestige lecture Working Group and is Editor-in-Chief of *IET Electric Power Applications*. He was awarded an IEE Achievement Medal in 2000.

Steve has always maintained strong links with industry, and believes that one of the important roles of the IET is to catalyse and promote interactions between industry and academe. In the current economic climate the flow of ideas, knowledge, and skilled people from universities into industry is more important than at any time in recent history, and the role to be played by the Institution in this respect assumes even greater importance.