Inaugural Annual Congress
8-9 December 2014

Passionate for patients, passionate about science

Royal College of General Practitioners
30 Euston Square, London NW1 2FB
Dear Colleague

Welcome to this inaugural Congress ‘Passionate for patients, passionate about science’, hosted by the Academy for Healthcare Science, and taking place in the beautiful premises of the Royal College of General Practitioners. I hope those of you who are reading this as delegates of the Congress have a thrilling experience which moves you to work with the Academy; and those who may be reading it online, or after the event, also experience the value of the Academy through its commitment to providing ‘one voice’ on behalf of the many organisations covering the profession (most of whom are featured in this brochure); and clearly aligning with the quality and safety agenda of the NHS in promoting registration for all scientists.

This is a very important occasion for everyone involved with the Academy and represents a great deal of hard work by a huge number of people, all of whom have a shared interest in science, scientists and healthcare. It is a real honour for me to be hosting the event and offering this heartfelt welcome and introduction and I’d like to thank everyone who has been involved in making it happen.

I am particularly moved by our theme, which is, of course, passion. Passion about the sciences, equalled by our passion for people. I think this, more than anything, effectively captures the essence of the Academy for Healthcare Science and clearly demonstrates our commitment to raising the profile of science in healthcare and increasing understanding of its impact on individuals, as well as on society as a whole. This year, we are paying tribute to the contribution scientists have made to the lives of injured service men and women returning from combat. How apt in this the 100th anniversary of the start of World War I.

Enjoy the event, and for more information about the Academy, please speak to any one from the Academy, or visit our website www.ahcs.ac.uk

With very best wishes

Sir Duncan Nichol CBE
Chair, AHCS
About the Academy for Healthcare Science (AHCS)

Background
The Academy (AHCS) was established as a joint initiative of the UK Health Departments and the professional bodies of the science community. The AHCS has been commissioned to undertake and support key projects including:

• Developing consistent regulation for the healthcare science workforce by establishing accredited voluntary registers where statutory regulation doesn’t currently exist.
• Implementing a system to assess and confer ‘equivalence of’ on the existing qualifications and experience individuals have, mapped to the outcomes of formally accredited and quality assured education and training programmes.
• Quality assuring education and training in partnership with other stakeholders.
• Developing common standards for healthcare science practice.

The Academy for Healthcare Science is the overarching body for the whole of the healthcare science profession, working with the specialist professional bodies and societies. The Academy works to ensure that healthcare science is recognised and respected as one of the key clinical professions in the health and care system having a significant impact on patient outcomes, safety and quality. The Academy brings together the UK’s diverse and specialised scientific community who work across the health and care system, which includes NHS Trusts, NHS Blood and Transplant, Public Health England, independent healthcare organisations, and the academic sector across the UK.

The Academy
• Provides a strong and coherent professional voice for the healthcare science workforce
• Works to ensure the profession has a high profile sufficient to influence and inform a range of stakeholders on healthcare science, science and services in the health and social care systems across the UK
• Facilitates engagement and support for wider strategic scientific initiatives
• Provides oversight and quality assurance for education and training of Modernising Scientific Careers programmes, leading to registration as a Clinical Scientist with the Health and Care Professions Council (HCPC), or with the Academy for those not regulated by statute

The Academy Board
Sir Duncan Nichol CBE, Chairman
Ms Janet Monkman, Chief Executive
Dr Kerry Tinkler, Director of Professional Standards and Registrar
Mr Will Brassington, Non Executive Director
Professor Tony Fisher, Non Executive Director
Mr Geoff Lester, Non Executive Director
Dr Archie Prentice, Non Executive Director
Ms Lynne Smith, Non Executive Director
Mr John Stevens, Non Executive Director

For more information please visit our website www.ahcs.ac.uk

Congress Supporters

AHCS would like to thank all of the supporters of the Congress
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Andy Bacon

Andy Bacon has over 20 years experience as a senior health leader in England and overseas. He has worked in the public, private and the charitable/not for profit sector. He has also worked with and in primary care, community and hospital based services (including specialist tertiary teaching hospitals). He has been involved in both the providing of clinical services and in the commissioning, purchasing and procurement of them. His particular areas of interest are armed forces health, health system management, developing integrated health care, diagnostics and improving health in less developed countries. He has been responsible for the delivery of new networks and types of providers to enhance the capacity of the English National Health Service (NHS). He was also the Chief Executive of the only specialist children’s hospital in East and Central Africa.

His current job is managing and coordinating healthcare for serving Armed Forces personnel and those covered by Defence Medical Services - having served for 13 years in the Army as an infantry officer before his work in health. He is “passionately curious” about finding new ways of improving people’s health. He holds a number of non-executive posts in charitable bodies concerned with the armed forces and international health and is Trustee of the Tropical Health Education Trust.

David Bennett

David Bennett is the Academy for Healthcare Science lead on quality assurance. In his role as head of patient and public involvement, he helps the Academy to meet one of its key aims – protecting the public by mitigating risks posed by the work of the healthcare science workforce. As a Regulator Council deputy registrar, David also supports the registrar in ensuring that the registers of suitably qualified members of the healthcare science workforce are well maintained.

Before joining the Academy, David was a member of the Department of Education and Training Reform team, where he helped the Department to implement a new Workforce Information Architecture.

Rick Borges

Rick Borges is the Accreditation Manager at the Professional Standards Authority for Health and Social Care where he is responsible for managing the Accredited Registers Programme. Rick joined the Authority in September 2012 from the Department of Health where he worked across a number of teams, including in the Private Office of a Minister of State (Lord Darzi). His most recent roles, before joining the Authority, were Deputy Operations Manager at the National Information Governance Board for Health and Social Care and Private Secretary to the Director General for NHS Informatics. Rick has a Masters in law and a postgraduate diploma in law in the UK.

Dr Brenan Cooper

Dr Brenan Cooper is a Consultant Clinical Scientist in Respiratory Physiology at Queen Elizabeth Hospital Birmingham and also a Hon. Senior Research Fellow at the University of Birmingham. He has over 30 years experience in both clinical and research practice in the UK. He has published over 70 papers on a broad range of respiratory physiology and is a world leader in the drive for Quality Diagnostic Spirometry. He has been European Respiratory Society ERS, Head of Assembly 9 (Allied Respiratory Professionals) and is currently the Co-Chair of the ERS European Spirometry Driving Licence Group. He has been Scientific Advisor in Respiratory Physiology & Sleep to the NHS, UK for over 10 years and is currently the President of the Association for Respiratory Technology & Physiology.

Professor Ian Cumming OBE

Professor Ian Cumming is the Chief Executive of Health Education England, a £5 billion organisation that is responsible for the education, training and development of the health and healthcare workforce for England.

Ian started his career in the NHS as a healthcare scientist specialising in the diagnosis and monitoring of coagulation disorders. He moved into his first general management role in 1990 and has held a series of NHS Senior Management roles including Assistant Chief Executive at the North West Regional Health Authority before being appointed to his first Chief Executive job with NHS Hospitals Trust in 1995 when, at the age of 30, he became the youngest ever Chief Executive in the NHS.

Since 1995 Ian has also been the Chief Executive of a University Teaching Hospitals Trust and a NHS Commissioning organisation before being appointed as the Chief Executive of the West Midlands Strategic Health Authority in 2009. On taking up this role, Ian also became a member of the national Management Board for the NHS in England.

In 2012 Ian was appointed as Health Education England’s first Chief Executive. Ian was awarded the OBE by Her Majesty the Queen for services to the NHS in 2003. He also holds an honorary chair in Leadership and Management at Lancaster University and has honorary degrees from the Lancaster, Wolverhampton, Coventry and Manchester Metropolitan Universities. Ian is also an honorary Fellow of the Royal College of General Practitioners.

Dr Val Davison

Dr Val Davison began her scientific career in the early seventies when she was integral in establishing and running the Northern Regional Genetics Laboratory. Following a move to Birmingham in 1990 Val was Consultant Clinical Scientist in Genetics and Clinical Director of the West Midlands Regional Genetics Service and Head of the Laboratory for over 20 years. Alongside clinical practice the laboratory had a significant research portfolio including molecular genetics for rare diseases, molecular oncology and related drug treatments and the introduction of new technologies to diagnose and support patient care.

In 2008 Val joined Professor Sue Hill, Chief Scientific Officer, working in the Modernising Scientific Careers team and leading the group of geneticists who designed and implemented the first of the Scientists Training Programmes in Genetics. Following the success of this programme Val became Head of the National School of Healthcare Science in 2010 and was influential in the implementation of all the new training programmes in MSC. Val received a national CSO leadership award for this work and was also recognized by the HSJ as an inspirational female leader in the NHS. In 2019 Val successfully established the School Val is now advising on the national genomic education agenda in a scientific capacity.

Throughout her career, Val has held many professional, national and international roles supporting the delivery of genetics into clinical service and the education of scientists and technologists in genetics and looks forward to being instrumental in designing strategy for and delivering the education surrounding the genomics era of medicine.

Dr Jörg Debatin

Dr Jörg Debatin is the Vice President and Chief Technology Officer for GE Healthcare, a $17 billion division of General Electric. Jörg is responsible for leading GE Healthcare’s global Science and Technology organization, whose research and development teams create and deliver novel innovations in healthcare IT, and life sciences product offerings that reduce healthcare costs, improve healthcare quality, and increase patient access to healthcare globally.

A highly regarded physician and winner of several academic honours and awards, Jörg’s background includes medical diagnostics, leadership of major medical institutions, and extensive experience in magnetic resonance imaging.

Jörg began his career as a diagnostic Radiologist working at Duke, Stanford, and Zurich, Switzerland. He was appointed Professor of Diagnostic Radiology at the University of Essen, Germany in 1999. Jörg’s previous experience also includes 8 years as Medical Director and CEO of the University Medical Centre, Hamburg-Eppendorf, where he implemented a clear portfolio strategy focusing on complex medicine, and established a Comprehensive Cancer Center linking clinical medicine with new oncology research strategies.

Before joining GE Healthcare, Jörg served as CEO for Amendes AG for three years, and led the development of outpatient diagnostic services. Jörg holds a medical degree from the University of Heidelberg, Germany. He also attended an Executive M.B.A from Hochschule St. Gallen, Switzerland.

George Freeman

George was elected to Parliament in 2010 after a 15 year career across the life sciences sector, in particular working with hospitals, clinical researchers, patient groups and biomedical research companies to pioneer novel healthcare innovations.

Following his election to Parliament in 2010, George served as PPS to the Minister of State for Climate Change. He was appointed Government Adviser on Life Sciences in July 2011, working closely with the Department of Health and coordinating the Government’s Life Science and Innovation, Health and Wealth Strategies (2011), and the Agri-Tech Industrial Strategy (2013). Following that, he was appointed to the post of Prime Minister’s UK Trade Envoy.

On July 15, George was appointed as Minister for Life Sciences, a Parliamentary Under-Secretary of State at the Department of Health and Department of Business, Innovation and Skills. His mission is to make the UK the best place in the world to discover and develop 21st Century healthcare innovations.
Dr Chris Gibson
Dr Chris Gibson is Head of the National School of Healthcare Science Lead for England and also the Scientific Lead for the South of England (Central) and a former President of the Institute of Physics and Engineering in Medicine. Chris has worked in healthcare science for over 35 years, as both a Consultant Clinical Scientist in hospital departments, and as an honorary lecturer and honorary senior research fellow in several Universities. His research interests are primarily in image processing and the applications of radiation in medicine. He has previously held several positions advising the UK government on the safe and effective use of radiation, including membership of the Administration of Radioactive Substances Advisory Committee (ARSAC), and of the Committee on Medical Aspects of Radiation in the Environment (COMARE).

Sharran Grey
Sharran Grey is the Blood Transfusion Clinical Lead for Bolton NHS Foundation Trust. Her responsibilities also involve direct patient care (including contribution to multi-professional specialist clinics), the scientific direction of the transfusion laboratory and the Trust-wide governance of blood transfusion, as well as training. Her current service development projects include the management of anaemia in primary care, and body weight dosing of red cells in normovolaemic anaemia. She is also an honorary lecturer at Manchester Metropolitan University, supporting both Biomedical and Clinical Science MSc programmes. She is undertaking doctoral clinical research in accelerated blood transfusion for selected patients receiving red cells at home. She has recently achieved STP equivalence and is one of only four HSST Haematology trainees across the country appointed in the (2014) cohort.

Mike Hallworth
MA MSc MCB FRCPath
Mike Hallworth is the lead for Equivalence assessments for the Academy’s Certificate of Equivalence. He is a Clinical Biochemist and has recently retired from the post of Consultant Clinical Scientist to the Shrewsbury and Telford Hospital NHS Trust. He worked in the NHS for almost 40 years, and is a past President of the European Communities Confederation of Clinical Chemistry and Laboratory Medicine (EFC) and past Chairman of the UK Association for Clinical Biochemistry. Mike was awarded the UK Healthcare Scientist of the Year Award in November 2008 by the UK Chief Scientific Officer, Professor Sue Hall, and was the 2011 winner of the EFCC-Roche European Scientific Award for Laboratory Medicine.

Professor Sue Hill OBE PhD
DSc CBiol FSB Hon FRCP Hon FRCPath
Professor Sue Hill is the Chief Scientific Officer for England, the head of the organisation for the 50,000 healthcare science workforce in the NHS and associated bodies – embracing more than 50 separate scientific specialisms. A respiratory scientist by background, Sue’s academic interests lie around the pathogenic mechanisms associated with the development and progression of chronic obstructive lung disease. Sue has a broad portfolio of policy responsibilities across NHS England and the wider NHS, providing professional leadership and expert clinical advice across the whole health and care system as well as working with senior clinical leaders. She is the senior responsible officer for Home Oxygen Supply and Services in England and has been joint National Clinical Director for Respiratory Disease. A significant part of her job involves working across government, with the Department of Health, with the NHS, Public Health England, and other external stakeholders to inform policy, influence legislation and directives, deliver strategic change, introduce new and innovative ways of working supported by modernised education and training, improve outcomes and the safety and quality of diagnostic and clinical services, and raise the profile and importance of science in health. Beyond that, she is passionate about patient involvement and participation in the services that they receive and is Vice President of the UK’s major respiratory charity, the British Lung Foundation, having worked closely with the charity since its inception in the early 1980s.

Dr Keith Ison
Dr Keith Ison studied physics and materials science at the University of Cambridge before training in medical physics. He then obtained a PhD in biomaterials and worked as a postdoctoral researcher before rejoining the NHS. He held various NHS scientific and managerial posts before becoming Head of Medical Physics at Guy’s and St Thomas’ hospitals in 2001, where he is responsible for a wide range of medical physics and clinical engineering activities. He is actively involved with the education and training of scientific and technical staff in healthcare, is an honorary senior lecturer at King’s College London and lead healthcare scientist for his hospital. He is currently interim chair of the Academy’s Professional Scientific Leadership Committee.

Dr Jackson Kirkman-Brown
MBE PhD
Dr Jackson Kirkman-Brown is Science Lead at Birmingham Women’s Fertility Centre, an Andrologist by background and Reader in Human Reproductive Science at the University of Birmingham. He has a strong belief in placing care for the patient at the heart of how we deliver services. Most recently he created a new role bringing together the patient experience, understanding and experience in medical device creation of medical devices across a wide range of clinical applications through her roles in clinical engineering and in D4D.

Dr Ranald MacKay
Dr Ranald Mackay is Director of Christie Medical Physics and Engineering. He is also the Scientific Lead for the South of England (Central) and a former President of the Institute of Physics and Engineering in Medicine. Dr Mackay is a clinical scientist with over twenty years experience in radiotherapy and is currently the technical lead for the development of proton therapy at the Christie. He has worked in a variety of research and clinical roles in radiotherapy and has been awarded the Fellowship of the Institute of Physics and Engineering in Medicine, and has been made an honorary member of the royal College of Radiologists.

Dr Avril McCarthy
Dr Avril McCarthy is the Medical Technology lead for the NIHR Devices for Dignity (D4D) HTC and a Lead Clinical Scientist responsible for medical device innovation at Sheffield Teaching Hospitals NHS Foundation Trust. She has developed extensive understanding and experience in medical device development and its lifecycle, regulatory issues and working collaboratively at the patient interface. Her career has been varied. She started out as an NHS biomedical scientist specialising in haematology and blood transfusion, then left the NHS to do a degree in the science of human movement, followed by a PhD in computational simulation in orthopaedic training, and a Post Doctoral qualification in knee biomechanics of soft tissue implants in collaboration with industry, clinical and academic partners across Europe. Returning to the NHS, she applied her skills to clinical biomechanical evaluation and latterly extended her knowledge to the design and creation of medical devices across a wide range of clinical applications through her roles in clinical engineering and in D4D.

Janet Monkman
Janet Monkman headed the Academy as CEO in February 2013 bringing with her a strong commitment to the values of the Academy – most importantly the benefits of bringing together science, technology and healthcare to improve patient care and advance the healthcare science workforce. Janet has had a long career in healthcare building from her work as a clinician to move into teaching and later management. She has a wide portfolio of experience in executive, chief executive and non executive roles in public, private and third sector.

Sir Duncan Nicholl OBE
As Chair of the Academy, Sir Duncan Nicholl leads the Management Board and Council. Former Chief Executive of the NHS, Sir Duncan has over forty years experience in the delivery and management of healthcare services in the UK, and since his retirement from executive work in 1994 has acted as Chairman for high-profile national organisations such as The Parole Board, Her Majesty’s Courts Service and Skills for Justice, and as Deputy Chairman of The Christie Hospital NHS Foundation Trust, the largest cancer centre in Europe. As well as his position at the Academy Sir Duncan is also Chair of the Countess of Chester Foundation Trust.
Dr. Patricia Oakley
PhD (Organisational Psychology), MBA (Healthcare Management), BSc (Pharmacy), Dip. Hist. Med. (SA) MRPharmS.

Dr. Patricia Oakley is a Strategic Service and Workforce Policy Analyst and Development Specialist and a Teaching and Research Fellow, Public Policy and Management at, King’s College, London.

Dr. Oakley has over 35 years health and public service experience in both operational and policy research and development areas. She has worked extensively with national policy-makers and Trust boards, executive directors and senior clinicians, and with service managers and clinical practitioners, in developing their strategies to deliver affordable public services. She has worked in management and organisational development; restructuring organisations and clinical care systems; designing and delivering skill-mix reviews and re-profiling programmes; conducting value for money audits and managing subsequent change programmes; and preparing strategic workforce and education and training investment plans.

Dr. Patricia Oakley is one of the founding Directors of Practices Made Perfect Ltd. where she is a workforce planning policy research and development specialist. Practices Made Perfect Ltd. works with public service organisations to help them develop their service strategies and workforce development plans. The main areas of specialist research are labour market and education trends, training and skill mix issues, and the effects of the changing legal, regulatory and staffing profiles.

Andy Reid

Andy Reid lost both his legs and his right arm after stepping on an IED plate whilst serving with the 3rd Battalion The Yorkshire Regiment in Afghanistan in 2009.

He astounded people with his recovery, spending only 2 weeks in hospital before returning home. A testament to his attitude in overcoming such adversity, he doesn’t let the severity of his injuries stop him from going forward with a positive mindset. Andy has been skydiving and took part in a 10k Run. He won The Sun’s Millie Award for Overcoming Adversity in 2010. Andy has recently finished his autobiography ‘Standing Tall’ and he is an Ambassador for the GB talent squad in para-triathlon and has great aspirations for the next Olympics in Brazil.

Dee Ripley

Dee Ripley is the Academy for Healthcare Science Lead for Wales, and is also Senior Lecturer at the Cardiff School of Health Sciences at Cardiff Metropolitan University.

Before taking up this position, Dee was Specialist Biostatistician in the disciplines of Clinical Haematology and Blood Transfusion, at the Aneurin Bevan Health Board, South Wales.

Dee’s most recent roles at the Cardiff School of Health Sciences include Programme Manager for the BSc (Hons) Applied Biomedical Science programme, Training Facilitator for practice placement educators, and leading the implementation of the Modernising Scientific Careers BSc (Hons) Healthcare Science (Life Sciences) programme at the Cardiff Metropolitan University.

Dr Veronique Sauret-Jackson

Dr Veronique Sauret-Jackson has worked in 3D printing for 15 years in research, NHS and commercial settings.

Her passion is for linking medical imaging, bioengineering and clinical needs for the benefit of the patient and the healthcare team. She gained her PhD in 2000 and is a member of IPEM and IoP and a chartered clinical scientist. She achieved her MBA in 2008 and is currently managing director of Cavendish Imaging Ltd and Cavendish Implants Ltd.

Tracey Smith-Straney

Tracey Smith-Straney, is a Biomedical Scientist, Clinical scientist and is the Haematology Laboratory Manager at Aintree University Hospitals NHS Foundation Trust.

Tracey started her career in healthcare science in 1989 as a trainee Biomedical Scientist, at the same time she joined the Army Medical Reserve, at 208 Liverpool Field Hospitals. Tracey is now a Major and Officer Commanding at the Headquarters Squadron in Liverpool.

Tracey believes that the experience she has gained within the military has been particularly beneficial in helping her civilian career. Operating autonomously as a Biomedical scientist, Tracey undertook Route 2 to become a clinical scientist and cited some of the work she had undertaken with the military as evidence for her portfolio. The experiences she has had on tours of Afghanistan have allowed her to think more resourcefully in her every day NHS practice.

Dr David Stirling

Dr David Stirling joined the NHS in 1992, after post doctoral research positions in the USA, with the ICRF in Edinburgh. Employed as a Clinical Scientist with responsibility for Molecular Diagnostics within Haematology, his clinical work extended to being specialty lead for Laboratory Haematology in an NHS Board with four acute hospital sites. He led the Molecular Pathology initiatives for Edinburgh, and the Scottish training schemes for Clinical Scientists in Haematology and Molecular Pathology. In 2011 he took up a part time secondment to Scottish Government as Healthcare Science Officer, and in March this year, became the first Director of Healthcare Science for NHS National Services for Scotland.

David chairs the Lab Science subcommittee for the British Society for Haematology, is a Board member of the Association of Clinical Scientists, and a member of the Academy council.
Gilbert Wieringa FRCPath
Gilbert Wieringa is clinical lead for laboratory medicine at Bolton. In previous lives he was healthcare scientist programme lead in the Department of Health (2007), Greater Manchester PCT’s pathology lead in 2006, and diagnostics lead for Greater Manchester SHA over 2004/05. His main interest is the use of near patient testing in primary care for which he headed a DH-sponsored project over 2005-07 providing cholesterol and Hba1C testing in high street pharmacies across Manchester for patients with diabetes and/or heart disease. Since 2009 he has established the largest quality assurance scheme in UK for high street cholesterol testing.

Alun Williams
Alun Williams is the Project Manager for the Academy (AHCS) overseeing the day-to-day operation of equivalence processes. This is Alun’s first role in Healthcare Science, having previously worked on education and infrastructure security projects. Alun also liaises with the AHCS IT developers supporting knowledge infrastructure projects, and supports the operation of the AHCS website.

Dr Steven Wood
Dr Steven Wood is a registered Clinical Scientist working in Health Informatics at Sheffield Teaching Hospital NHS Foundation Trust. Following his PhD in Physiological Measurement and two post-doctoral appointments in the field of Computational Modelling in Personalised Medicine, he joined the Scientific Computing and Informatics group within the Department of Medical Physics in 2004. He is now the head of the group and also the Trust Research Informatics lead and holds an honorary lecturer position with the University of Sheffield. In addition to the core NHS business of improving healthcare through the development and delivery of novel Informatics solutions, he is also involved in numerous European funded research grants, which allow the group to seamlessly transition cutting edge research informatics into the clinical workspace.
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<thead>
<tr>
<th>Time</th>
<th>Details</th>
<th>Presenter</th>
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<tr>
<td>10.30</td>
<td>Welcome</td>
<td>Sir Duncan Nichol CBE, Chair, AHCS Board</td>
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<tr>
<td>10.40</td>
<td>Creating the future – how science can transform healthcare</td>
<td>Dr David Stirling, Healthcare Science Director, NHS Scotland</td>
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<td>10.55</td>
<td>Passionate for patients, passionate about science</td>
<td>Andy Reid, We are Aim</td>
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<td>11.15</td>
<td>Healthcare science at the cutting edge – transforming lives</td>
<td>Dr Val Davison, Scientific Adviser to CSO office in Genomics</td>
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<td>The genomics revolution</td>
<td>Dr Ranald MacKay, Director, Christie Medical Physics and Engineering</td>
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<td>Beating cancer: proton beam therapy</td>
<td>Professor Paul White, Consultant Clinical Scientist and Head of Clinical</td>
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<td>Validating heart function from non-beating donors</td>
<td>Engineering, Cambridge University Hospitals NHS Foundation Trust</td>
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<td>Technology innovation: the virtual physiological human</td>
<td>Dr Steven Wood, Clinical Scientist, Sheffield Teaching Hospitals NHS</td>
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<td>Foundation Trust</td>
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<td>12.30</td>
<td>Lunch, networking, posters and exhibition stand viewing</td>
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<td>13.45</td>
<td>Demonstrating a culture of safety – the case for regulation</td>
<td>Dr Pat Oakley, Director, Practices Made Perfect Limited</td>
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<td>Providing regulated services</td>
<td>Rick Borges, Accreditation Manager, Professional Standards Authority for</td>
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<td>14.30</td>
<td>The value of one voice for healthcare science</td>
<td>Dr Keith Ison, Head of Medical Physics, Guy’s and St Thomas’ NHS Foundation Trust</td>
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<td>15.15</td>
<td>Innovation and leadership: oral presentations from abstracts</td>
<td>Megan Dale, Cardiff and Vale Local Health Board</td>
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<td>Katharine Kenny, Oxford University Hospitals NHS Trust</td>
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<td>Professor Sian Ellard, Royal Devon and Exeter NHS Foundation Trust</td>
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<td>Luke Sullivan, West Hertfordshire Hospitals NHS Trust</td>
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<td>Paul Waller, Kingston University</td>
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<td>16.15</td>
<td>3D printing – a new revolution?</td>
<td>Dr Veronique Sauret-Jackson, Managing Director, Cavendish Imaging and</td>
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<td>Cavendish Implants</td>
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<td>17.00</td>
<td>Closing reflections</td>
<td>Gilbert Wieringa, Clinical Lead, Bolton NHS Foundation Trust</td>
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<td>17.15</td>
<td>Tea</td>
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<td>19.00</td>
<td>Awards dinner</td>
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<td>9.00</td>
<td>Introduction to the day</td>
<td>Janet Monkman, CEO, AHCS</td>
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<td>9.10</td>
<td>Welcome</td>
<td>Andy Bacon, Assistant Head, NHS England</td>
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|       | Healthcare science in action – how scientific and technological innovation are supporting service personnel on their return from combat | Lead: Andy Bacon, Assistant Head, NHS England  
Dr Jackson Kirkman-Brown, Science Lead, Birmingham Women’s Fertility Centre  
Dr Avril McCarthy, MedTech Lead for NIHR Devices for Dignity HTC & Lead Clinical Scientist, Sheffield Teaching Hospitals NHS Foundation Trust  
Tracey Smith-Straney, Clinical Scientist and Haematology Laboratory Manager, Aintree University Hospitals NHS Foundation Trust and Officer Commanding HQ and Support Squadron, 208 Field Hospital (V)  
Ruth Thomsen, Scientific Director, NHS England (London) |
| 10.15 | Coffee                                                                   |                                                                                                                                         |
| 10.45 | Disruptive innovation in healthcare                                      | Dr Jörg Debatin, Vice President and Chief Technology Officer, GE Healthcare                                                              |
| 11.15 | Healthcare science: here and now - Workshops                             | Mike Hallworth, Equivalence Assessment Lead, AHCS                                                                                         |
|       | What will consultant clinical scientists be doing in the future?        |                                                                                                                                         |
|       | Achieving quality assurance in education and training                   | David Bennett, Head of Quality Assurance, AHCS; Dr Chris Gibson, Head of National School of Healthcare Science                              |
|       | Achieving equivalence                                                   | Dee Ripley, AHCS Representative for Wales; Sharran Grey, Blood Transfusion Clinical Lead, Bolton NHS Foundation Trust; Alun Williams, Project Manager, AHCS |
|       | Releasing the potential of healthcare scientists                        | Dr Brendan Cooper, Consultant Clinical Scientist, University Hospitals Birmingham NHS Foundation Trust                                      |
| 12.30 | Lunch                                                                    |                                                                                                                                         |
| 13.40 | AHCS Congress Inaugural Lecture: introduction                            | Janet Monkman, CEO, AHCS                                                                                                                 |
| 13.45 | The Inaugural AHCS Congress lecture: Economics, Genomics, informatics and Demographics | Professor Ian Cumming, CEO, Health Education England                                                                                      |
| 14.15 | Inspirational science: nanotechnology in healthcare                     | Professor Chris Lowe, Professor of Biotechnology, University of Cambridge                                                               |
| 14.45 | Healthcare science: here and now - Workshop                             | Mike Hallworth, Equivalence Assessment Lead, AHCS                                                                                         |
|       | What will consultant clinical scientists be doing in the future?        |                                                                                                                                         |
|       | Achieving quality assurance in education and training                   | David Bennett, Head of Quality Assurance, AHCS; Dr Chris Gibson, Head of National School of Healthcare Science                              |
|       | Achieving equivalence                                                   | Dee Ripley, AHCS Representative for Wales; Sharran Grey, Blood Transfusion Clinical Lead, Bolton NHS Foundation Trust; Alun Williams, Project Manager, AHCS |
|       | Releasing the potential of healthcare scientists                        | Dr Brendan Cooper, Consultant Clinical Scientist, University Hospitals Birmingham NHS Foundation Trust                                      |
| 15.15 | Tea                                                                      |                                                                                                                                         |
| 15.45 | The impact of science on health and healthcare                          | George Freeman MP, Minister of State for Life Sciences                                                                                    |
| 16.00 | A personal reflection: leadership for healthcare scientists              | Professor Sue Hill OBE, CSO, NHS England                                                                                                |
| 16.30 | Congress reflections                                                    | Gilbert Wieringa, Clinical Lead, Bolton NHS Foundation Trust                                                                             |
| 16.45 | Close                                                                   |                                                                                                                                         |
Health Education England (HEE) is a Special Health Authority providing leadership for the new education and training system. It ensures that the shape and skills of the future health and public health workforce evolve to sustain high quality outcomes for patients in the face of demographic and technological change. HEE ensures that the workforce has the right skills, behaviours and training, and is available in the right numbers, to support the delivery of excellent healthcare improvements. HEE supports healthcare providers and clinicians to take greater responsibility for planning and commissioning of education and training through the development of Local Education and Training Boards (LETBs), which are statutory committees of HEE. The driving principle for reform of the education and training system is to improve care and outcomes for patients and HEE exists for one reason alone – to help ensure delivery of the highest quality healthcare to England’s population, through the people we recruit, educate, train and develop.

NHS Leadership Academy

There’s so much evidence connecting better leadership to better patient care – evidence which links good leadership to making a positive difference to care outcomes and the experience of care. And getting leadership right doesn’t happen by accident. Recent research from the internationally respected Development Dimensions International (DDI) on global leadership shows a real problem with the leadership we need in the NHS can be recruited from elsewhere. The fact is, we are much more likely to be successful by deploying tactics to ensure we ‘grow our own’ more effectively where the routine development of talented individuals, linked to career progression, becomes a core part of our business. This is the philosophy underpinning the leadership development principles of the NHS Leadership Academy.

Kingsley Napley’s core strength is in litigation including; regulatory and professional discipline, criminal law, clinical negligence and disputes. In addition, the firm has a public law team who work closely with our regulatory and criminal specialists. The firm is ranked within The Lawyer’s Top 100 law firms and acts for regulators, corporate organisations and individuals, providing advice and representation at all stages of a case along with relevant compliance and broader regulatory support when required. The firm has a large regulatory and professional discipline practice and significant experience representing several regulators in their fitness to practise proceedings. We are also ranked as a band one firm in the Legal 500, UK edition.

The Modernising Scientific Careers (MSC) programme sets out for the first time a comprehensive training and career framework for the whole healthcare science workforce inclusive of the more than 50 different scientific professional specialties. In its conception it aimed to provide a coherent framework that was accessible, affordable and designed specifically to both capture scientific and technological advances and to provide improved outcomes for patients, the service and professionals.

The Welsh Government, through the Chief Scientific Adviser (Health), is pleased to have been working with AHCS to support a pilot of the MSC Scientist Training Programme equivalence process with a selected cohort of candidates from Wales and to have established a Healthcare Science Lead for the Academy for Wales.

North West Healthcare Science Network brings healthcare scientists together to drive forward innovation to provide high quality patient care. The vision of the Network is to develop healthcare science in the North West so scientific services are delivered by healthcare scientists who are key members of the multi-professional team providing safe, high quality patient care in a range of settings, with the patient at the heart of all we do. The Healthcare Science workforce will also deliver excellence in knowledge creation, innovation and service improvement by leading and embracing research and development, continually evaluating clinical practice and care delivery models.

Oxygen Professional Risks

AHCS is working with its insurance broker Oxygen Professional Risks on a Professional Liability Insurance facility for its registrants. Oxygen specialises in insurance for both statutorily regulated professions and those on a voluntary register and also provides insurance for professional membership bodies and regulators.
The Academy for Healthcare Science is delighted to be working with the professional bodies and societies which represent scientists in healthcare, to promote the contribution made by healthcare science - giving our communities the best health outcomes. AHCS acknowledges the contribution and support these organisations have made to this Inaugural Congress.

The Association of Anatomical Pathology Technology (AAPT) is the recognised professional body for anatomical pathology technologists employed in hospital and public mortuaries across the United Kingdom. The AAPT was formed in 2003 with support from the Institute of Biomedical Science (IBMS), the Royal College of Pathologists and the Royal Society of Public Health (RSPH) with regulation and education as its two main drivers. The AAPT is now acknowledged as the principal voice for the profession by all major stakeholders allied to anatomical pathology technology. The AAPT is committed to working with the appropriate authorities and organisations to help ensure, and improve, the professional, educational and practical standards for technologists across the United Kingdom and beyond and has forged links with many of our European counterparts. The Department of Health has approached the AAPT to comment on every major consultation document relating to death, bereavement, post mortem consent and pandemic planning. Along with the Modernising Scientific Careers team AAPT, RSPH and RCPath have developed fit for purpose qualifications which are currently being rolled out in the UK. Website: www.aaptuk.org

The Association for Clinical Biochemistry & Laboratory Medicine has been in existence for 60 years and is a professional body representing the disciplines of laboratory medicine in the UK. Its aim is to ensure laboratory medicine serves patients effectively through the development and sharing of knowledge, expertise, innovation and best practice. It does this by supporting the training and continuing education of all members; supporting and encouraging research and audit in laboratory medicine; disseminating best practice; organising regional, national and international meetings; publishing journals, books and other educational material and developing relationships with other professional, healthcare, science and government organisations. The ACB also supports members with any employment issues they may have. Website: www.acb.org.uk

The Association of Clinical Embryologists (ACE) is the UK’s only professional body representing embryologists and now has in excess of 800 members, both in the UK and across the rest of the world. ACE is managed by an elected group of highly experienced and committed senior embryologists and laboratory managers who are specialists in IVF, ICSI and associated fertility treatments and the ethical and moral issues surrounding them. They are experienced spokespeople who are regularly called upon to give informed and insightful comment on the key issues affecting the world of embryology and assisted conception in general. Website: www.embryologists.org.uk

The Association of Clinical Electron Microscopists (ACEM) promotes awareness, education and best practice in clinical electron microscopy, i.e. electron microscopy applied to human specimens for the purpose of diagnosis and research. Founded in 1998, ACEM represents clinical electron microscopy in the UK at government and health professional organisation level. A key part of the work of ACEM members is providing important medical diagnostic information from tissue biopsies. Electron microscopy is an important diagnostic tool in the fields of kidney disease, muscle pathology, metabolic disorders, tumour pathology, neuropathology, paediatric pathology, plus a number of specialist and nationally commissioned services including Ehlers-Danlos syndrome, epidermolysis bullosa, ophthalmic disease, paediatric liver disease and primary ciliary dyskinesia. Website: www.acem.org.uk

The Association of Clinical Genetic Science was established in December 2012 from a merger of the Association for Clinical Cytogenetics and the Clinical Molecular Genetics Society with the vision of bringing together scientists working within genetics into one professional association. The key aims of the AGCS are to ensure benefit to the public through: • The promotion, encouragement and advancement of the study and practice of clinical genetic science • The advancement of education, research and innovation in clinical genetic science • The development and promotion of standards in clinical genetic science The AGCS is open to those working in both diagnostic and research settings who develop and apply genetic tests to diagnosing and investigating the genetic basis of disease. Website: www.acgs.uk.com

The Association of Biomedical Andrologists was formed in August 2004 as a professional body to provide support for laboratory scientists in the United Kingdom who undertake Clinical Andrology in their daily work. The aims of the Association are to: • Provide training for scientists in laboratory Andrology • Develop Continuing Professional Development for those working in the andrology laboratory • Support laboratory scientists working in the andrology laboratory and provide a forum for discussion • Develop guidelines and represent the profession to other bodies and regulatory authorities • Work towards regulation of the profession Website: www.aba.uk.net

The Molecular Genetics Society with the Association for Clinical Cytogenetics and the Clinical Science

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AGIP is involved with the Improving Quality In Physiological Service (IQIPS) programme and has collaborated with IQIPS to develop the self-assessment and knowledge management system. AGIP members have been trained as assessors for the IQIPS process.

The organisation that developed into the Association of Health Professions in Ophthalmology began in 1999 as a sub-committee of the Royal College of Ophthalmologists with a remit to consider and recommend a programme for the education and training of ophthalmic support workers. As the work of the sub-committee progressed it became clear that wider and more formal representation from all ophthalmic related professional groups was needed. AHPO was established in 2002, became a registered company limited by guarantee in December 2003, and was registered as a charity in January 2005. In early 2015 AHPO will launch a new qualification, the Diploma in Ophthalmic and Vision Science. This is part of the Modernising Scientific Careers framework for Career Bands 2 to 4 and is an online modular programme that can be used flexibly by staff working in eye departments and clinics. The complete Diploma in Ophthalmic and Vision Science will train someone new to healthcare practice to become an Associate Ophthalmic Practitioner / Apprentice, but other ophthalmic staff who wish to extend their roles can access modules relevant to their area of work.

Website: www.ahpo.net

The objects of the Association are as follows:

- The prime role of the ACS is to assess trainees as a preliminary to registration as a Clinical Scientist with the HCPC.
- To promote, advance and encourage the study and practice of the application of science in the prevention, diagnosis and control of illness, disease and disability.
- To establish, uphold and improve the standards of qualification, training, competence and conduct of Clinical Scientists in the United Kingdom.
- To work with official bodies including Health & Care Professions Council (HCPC) on matters relating to the above.
- To liaise with relevant professional bodies to set standards for training and training centres to include availability of appropriate resources, regular assessment, pastoral care and mechanisms for addressing students training issues.

Website: www.assocsci.org

The Association of Gastro-Intestinal Physiologists (AGIP) is an Associate group of the British Society of Gastroenterology. AGIP members, working closely with gastroenterologists and upper and lower GI surgeons, provide a physiological assessment service in Gastroenterology and are experienced in planning and performing a wide range of diagnostic investigations to assess the function of the entire GI tract. GI physiologists will also be involved with the training of other health care professionals, research and development, education and provision of advice and professional opinion.

AGIP has an elected Council and members attend Professional Bodies meetings to ensure that the interests of GI physiologists continue to be represented during the process of shaping the future of diagnostic services within the UK.

AGIP is working with The National School of Healthcare Science to manage the national recruitment for postgraduate entry to the Scientist Training Programme for GI physiologists and is also involved with the national project to develop the Higher Specialist Scientific Training programmes.

The Association of Neurophysiological Scientists (formerly EPTA) is the professional body for clinical physiologists working in the field of Clinical Neurophysiology. Its principal aims are to represent its members at a national level, set standards of practice, promote career development, set education and training standards and award qualifications. Neurophysiology is a Healthcare Science where healthcare practitioners and healthcare scientists measure the function of the nervous system to help in the diagnosis and/or monitor the progress of neurological disorders. There are a wide range of investigations performed, all of which are patient focused, and therefore significant scientific and clinical skills are required by the workforce. Clinical Neurophysiology departments are usually based in hospitals and linked to neurological centres. While some of the investigations in neurophysiology are recorded in dedicated environments, many are also performed at the patient’s bedside, in intensive care and special baby care units and also in the operating theatre.

EPTA was founded in 1949 with initially 21 members; The ANS has now grown to over 500 members, the majority of whom are based within clinical departments in the UK and Republic of Ireland, although membership does spread worldwide. With over 60 years experience it provides the only professionally recognised practical examinations in Neurophysiology in the UK.

Website: www.ansuk.org

The Association of Ophthalmic Science Practitioners (AOSP) was formed to bring together professional staff working within ophthalmology services in the UK. This was primarily intended for technical staff using test equipment and performing clinical procedures contributing towards diagnosis and management of diseases. One of the key objectives was to provide a voluntary professional registration route in the absence of a formal State Registration process to seek to protect patients. Voluntary registration has now migrated to the Academy for Healthcare Science in common with some other professions. However AOSP still exists to maintain and promote the enhancement of high clinical standards and patient safety. In the light of the recent registration changes the future role of AOSP will need to be evaluated and this may result in the future merger of our professional body with other likeminded and similar organisations.

Website: www.aosp.org
The **Association of Renal Technologists (ART)** was founded in 1975 and its first seminar was held in 1976 at Keele University. The purpose of ART is to promote the field of work shared by technicians, technologists, engineers, scientists and other members of the multi-professional team working within the sphere of Renal Technology. The Association has over 200 members and is represented in many Renal Clinics throughout the United Kingdom. Among its members are employees of the National Health Service and private sectors. Additionally they provide independent advice to Renal Clinics nationally.

Website: www.artp.org.uk

The **Association for Respiratory Technology & Physiology (ARTP)**, through standards of training and quality assurance, is the professional guardian of physiological measurement issues in respiratory medicine in the UK. With over 35 years of experience in the design and delivery of lung function services, ARTP provides the only national, professionally recognised, qualifications in Respiratory Function Testing and Spirometry in the UK. Through its working groups, ARTP also publishes position papers recommending standards for the design and delivery of lung function services and the structure and configuration of services in the UK.

An important function of the ARTP is the key role in upholding high standards and negotiating with government departments on policy. The BAA is the largest association of professionals in hearing and balance in the UK. Our membership extends internationally and in both the public and private sector. The BAA aims to help its members develop in their professional skills; provide a benchmark for quality and professional standards; and promote audiology as an autonomous profession.

Website: www.baaudiology.org

The **British Association of Audiology (BAA)** aims to help its members move into the profession and has a strong voice, offering clinical autonomy for the audiology profession. The BAA was established to work alongside other bodies, such as the British Society of Audiology. The BAA develops and accredits high quality education for people moving into the profession and has a key role in upholding high standards and negotiating with government departments on policy.

The British Association of Retinal Screening is an organisation that was set up 14 years ago primarily for diabetic retinopathy screeners. In 2010 the name of the association was changed to the British Association of Retinal Screening to represent all staff involved in diabetic retinopathy screening. Diabetic retinopathy is a common cause of blindness in the UK’s under 65 age group and retinal screening is an effective way to reduce or prevent visual loss from blood vessel damage. There are approximately 3.2 million people diagnosed with diabetes in the UK and there are an estimated 360,000 people who have the condition, but who are undiagnosed.

BARS main aim is to support professionals involved in retinal screening by providing a continuing educational, representational and support resource for those involved in screening through the internet, bespoke educational sessions and by the organisation of conferences and meetings.

Website: www.eyescreening.org.uk

The **British Society for Clinical Cytology (BSCC)** and the **National Association of Cytologists (NAC)** set up 14 years ago primarily for diabetic retinopathy screeners.

Diabetic retinopathy is a common cause of blindness in the UK’s under 65 age group and retinal screening is an effective way to reduce or prevent visual loss from blood vessel damage. There are approximately 3.2 million people diagnosed with diabetes in the UK and there are an estimated 630,000 people who have the condition, but who are undiagnosed.

BARS main aim is to support professionals involved in retinal screening by providing a continuing educational, representational and support resource for those involved in screening through the internet, bespoke educational sessions and by the organisation of conferences and meetings.

Website: www.eyescreening.org.uk

The **British Association of Retinal Screeners (BARS)** was formed in 2011 following the merger of the British Society for Clinical Cytology (BSCC) and the National Association of Cytologists (NAC). The aims and objectives of the Association are:

- To encourage the science and art of Cytology by encouraging higher standards in Cytology for the benefit of the public
- To encourage research in Cytology and related fields and the publication of useful results

Website: www.britishcytology.org.uk

The **British Association of Tissue Banks (BATB)** was founded in 1993, following a meeting of a sub group of the Society for Low Temperature Biology to:

- facilitate the interchange of information between members
- provide opportunities for the discussion of all aspects of tissue banking practice
- encourage relevant research and development and to provide informed comment to external agencies
- foster education and training in tissue banking and to maintain national and international links with relevant bodies
- encourage professional development for members
- make knowledge in the field of tissue banking available to any person for the general good of the community

Website: www.batb.org.uk
The British Heart Rhythm Society (formerly known as Heart Rhythm UK) is dedicated to improving all aspects of arrhythmia care and electrical device based therapies while acting as a unifying focus for those professionals involved. The society was formed in 2005 by the amalgamation of the British Pacing and Electrophysiology Group (BPEG), the British Association of Arrhythmia Nurses (BANA) and the UK Interventional Electrophysiology Society (UKICES). It is affiliated to Arrhythmia Alliance (AA) and British Cardiovascular Society (BCS).

The British Heart Rhythm Society has close working relationships with the Arrhythmia Alliance representing patient groups; with medical regulatory and advisory bodies (MHRA); and with colleagues in the medical equipment and device manufacturing industries (ABHI).

Website: www.bhrs.com

The British Institute of Radiology (BIR) is a multidisciplinary membership organisation connecting all those with a professional interest in imaging science and radiation technology. It provides opportunities for people with an interest in radiology and radiation oncology to exchange ideas and gain new perspectives on technologies and treatments via scientific meetings and conferences, peer-reviewed journals and through regional networks. The BIR is the oldest radiology society in the world and there is a strong association with the historical archive in the UK. The BIR continues to have a major role in the publication of scientific material.

Website: www.bir.org.uk

Established in 1966 as the Nuclear Medicine Society, the British Nuclear Medicine Society (BNMS) is the only independent forum devoted to all aspects of Nuclear Medicine. Membership of the BNMS is open to those who have a substantial interest and involvement in the provision of nuclear medicine services and includes clinicians dealing with the medical speciality, clinical scientists, radiopharmacists, other scientists, nuclear medicine technologists and nurses. The BNMS promotes excellence in clinical practice, education, research and development of nuclear medicine within the UK. The major aims of the BNMS include raising the profile of nuclear medicine within the wider medical community, supporting the establishment and provision of appropriate training in nuclear medicine and representation on official bodies concerned with the regulation of the clinical uses of radionuclides and radiopharmaceuticals.

Website: www.bnms.org.uk

The British chapter of the International Society for Clinical Electrophysiology of Vision (ISCEV) was formed in 2003. Society members include physicians, Healthcare Scientists and other professionals with an active interest in clinical electrophysiology of vision. Electrophysiology gives objective information on visual function and BriSCEV members apply the techniques in both clinical and research settings. The Society’s objectives are to promote and extend knowledge of clinical electrophysiology of vision, and to increase co-operation and communication among workers in the field. BriSCEV also establishes and revises norms for instrumentation and measurement, and recording procedures in clinical electrophysiology of vision, in accordance with ISCEV guidance.

Website: www.briscev.org.uk

The British Society of Audiology is a registered charity, established in 1967. Its aims are to advance audiological research, learning, practice and impact. It is the largest learned audiology society in Europe with a membership of around 1200. It provides an interface between researchers and healthcare practitioners as well as other groups (educationalists, government, independent sector, professional bodies, patient groups and third sector organisations).

The BSA has an important role in providing expert independent advice and is represented on a number of national bodies. It is respected for producing recommended clinical procedures and ‘Good Practice’ documents. The Society runs a research fund that allows members to lead an applied research project collaboration, as a partnership between experienced researchers and healthcare practitioners.

Website: www.thebsa.org.uk

The British Institute of Professional Photography is an internationally recognised qualifying organisation with over 100 years experience in supporting and networking photographers. We are a not for profit organisation delivering education, qualifications and professional development to photographers. We achieve this by offering a challenging qualifications structure alongside a full programme of training courses, events and a number of preferential deals on useful products and services.

With members worldwide covering every discipline of photography, BIPP also works with a number of Colleges, including the Defence School of Photography and the College of Policing to ensure the future of the professional photographic industry. One of the key areas of our work is helping to represent professional photography to government and industry.

Website: www.bipp.com
The British Society for Clinical Neurophysiology (founded as the first ever EEG Society) grew out of a group which first met in January 1942 “for an informal discussion among practising electroencephalographers on the technical and clinical aspects of electroencephalography”. The Society was established to promote and assist the science and practice of electroencephalography, clinical neurophysiology and allied subjects for the public good, and following a vote of the Society’s members it changed its name to the British Society for Clinical Neurophysiology in 1989.

Clinical Neurophysiology is a diagnostic specialty allied to Neurology, with close associations with all Neuroscience departments, paediatric and musculoskeletal specialties, and increasingly primary care providers. It is primarily an investigative specialty; using computer, electrical, magnetic and electronic means of recording the function of the brain, spinal cord, spinal roots, peripheral nerves and muscle to diagnose disorders of the nervous system.

Website: www.bscn.org.uk

The British Society for Echocardiography represents the interests of those working in clinical echocardiography at all levels, and in all areas, including adult and paediatric cardiology, cardiovascular research and teaching. With over 2600 members, it is the largest of the professional groups affiliated to the British Cardiovascular Society. It also has links to the European Association of Echocardiography and the European Society of Cardiology.

The Society has a major interest in the education and training of physicians and echocardiographers and has published training guidelines. Members can undertake a formal accreditation programme of written examinations and documented clinical experience with specialist options available for adult transthoracic, transoesophageal, critical care and community echocardiography. In conjunction with the Consortium for Accreditation of Sonographic Education (CASE), the BSE assesses and validates Degree programmes involving cardiac ultrasound. It represents UK interests on committees charged with coordination and harmonisation of training standards throughout Europe and co-operates with similar organisations in other countries.

Website: www.bsecho.org

The British Society for Haematology It is the main haematology society in the United Kingdom with about 1500 members. The objectives of the Society are to advance the practice and study of haematology and to facilitate contact between persons interested in haematology.

The British Society for Haematology promotes its objectives through its Annual Scientific Meeting, through its educational and scientific grants, by producing guidelines, through the British Journal of Haematology and through its educational work. The society embraces all professionals involved in haematology.

Website: www.b-s-h.org.uk

The British Society for Histocompatibility & Immunogenetics (BSHI) was formed in 1989 following widespread expression of support for a formal professional body to represent scientists in the field. The society has a membership of over 450 which includes Biomedical Scientists, Clinical Scientists, Physicians, Surgeons, Researchers and Academics.

There are BSHI members in all the Histocompatibility and Immunogenetics (H&I) laboratories in the UK and Ireland and in many European laboratories. BSHI became a company limited by guarantee in 2007 and achieved charitable status in 2008. Since its establishment, the BSHI has enjoyed continuing support and encouragement from the commercial sector. Several companies have joined as corporate BSHI members.

Website: www.bshi.org.uk

The British Society for Immunology (BSI) is one of the oldest, largest, and most active immunology societies in the world and is the largest in Europe. Its members are based all over the world, with the majority working in Britain. The BSI’s main objective is to promote and support excellence in research, scholarship and clinical practice in immunology for the benefit of human and animal health and welfare. The BSI seeks to help British immunology accomplish the highest possible goals.

Website: www.immunology.org

The British Sleep Society (BSS) is a professional organisation for medical, scientific and healthcare workers dealing with sleep medicine and sleep science. It is a registered British charity which aims to improve public health by promoting education and research into sleep and its disorders.

Website: www.sleepsociety.org.uk
The Institute of Biomedical Science (IBMS) is the professional body for those who work within the field of biomedical science. Biomedical science is the application of life science to medical use, including; diagnosis, health monitoring, treatment or research. The IBMS represents over 20,000 members employed predominantly within the healthcare sector, but also within university and veterinary laboratories, government agencies and other services. Other members also work in related commercial fields and academia. Membership includes practitioners working at all levels in biomedical science, some of which may be regulated as biomedical scientists through the Health and Care Professions Council (HCPC) or registered with the Science Council as Registered Technicians (RSciTech), Registered Scientists (RSci) or Chartered Scientists (CSci). Website: www.ibms.org

The Institute of Medical Illustrators was founded in 1968 to bring together the several disciplines of medical illustration, and since that time IMI has set and maintained standards for the profession. It represents Clinical Photographers, Healthcare Designers, Medical Artists and Clinical Video Producers both in the UK and internationally. IMI provides a rich network of fellow professionals, working together to improve and develop medical illustration by means of conferences, courses, resources and regional meetings and provides its members with the umbrella of a Code of Professional Conduct and a Continuing Professional Development programme. At a National level, IMI campaigns to improve recognition of the profession and is the principal body named by the Department of Health for consultation by Trusts on matters concerning Medical Illustration. Website: www.imi.org.uk

The Institute of Maxillofacial Prosthetists and Technologists is an established professional body that oversees the training, qualifications and practice of the maxillofacial prosthetic workforce whilst maintaining a communication and support network for the membership. The Institute also works alongside and advises medical, professional and governmental groups on issues relevant to the specialty. The foundations of the Institute were set down after the Second World War when specialist surgical technicians working in oral surgery units alongside their dental and medically qualified surgical colleagues met informally for mutual support. During the late 1950s this group became the Maxillofacial Technicians Association with the first scientific congress being held in 1961. Maxillofacial Prosthetics is a clinical healthcare science that deals with specialist rehabilitation of patients requiring treatment after a traumatic injury, cancer surgery or defects from birth causing malformation. A Maxillofacial Prosthetist or Reconstructive Scientist will use the latest technology and current available materials to construct a facial prostheses such as an artificial eye, ear, nose or body prosthetic such as a breast, nipple, finger or defect of the leg or arm. Website: www.impt.co.uk

Physicists, engineers and technologists play vital roles in delivering our healthcare. The Institute of Physics and Engineering in Medicine is the professional organisation that represents this workforce and is a charity with around 4,000 members from healthcare, academia and industry. IPEM members help to ensure that patients are correctly diagnosed and safely treated for illnesses such as cancer and stroke. They also maintain and manage medical equipment such as MRI and ultrasound scanners, X-ray machines, drug delivery systems and patient monitors. Their research and innovation leads to new technologies and methods that improve on existing medical treatments. They provide new solutions that enable older people and patients with injuries or long-term conditions to complete everyday tasks. Website: www.iphem.ac.uk

The Medical Artists’ Association of Great Britain (MAA) was formed in 1949. During the 1990s the role of a medical artist significantly changed. In the 1950s the majority worked within a hospital or university department, whereas today most are working within publishing, marketing, education and training. In addition to hospital and university departments, many work in the private sector. Throughout its life The Medical Artists’ Association has continued to maintain the high standards of its training. Students gain invaluable skills and apply them to new and evolving technologies to maintain the high professional standards in medical art to which the Association aspires. Website: www.maa.org.uk

The National Association of Phlebotomists continues to be the voice of the profession and with the modernising of the education and training of the workforce there are more opportunities than ever for all staff to achieve a vocational qualification relevant to their skills. NAP provides training and ongoing professional development, and supports staff through from trainee to senior/ supervisor roles within Phlebotomy services. Website: www.phlebotomy.org
The Ophthalmic Imaging Association has a membership of those who work in Ophthalmology to provide images of the eye. These images of the eye are of a diagnostic nature and are important to ensure accuracy of diagnosis and treatment. The OIA provides a forum for like-minded healthcare workers and strives for improvement in education, registration, and public awareness. Website: www.oia.org.uk

The Royal College of Pathologists is a professional membership organisation with charitable status, concerned with all matters relating to the science and practice of pathology. The College is committed to promoting excellence in the study, research and practice of pathology and maintaining the highest standards through training, assessments, examinations and professional development of the Pathology workforce, to the benefit of the public. It strives to engage its members, opinion formers and decision makers to support efficient, effective and sustainable pathology services nationally and internationally. Inspiring the pathologists of the future is vital to deliver world-class patient services. The College works to promote public understanding of the contribution pathologists make to improving patient outcomes. Website: www.rcpath.org

The Society of Critical Care Technologists is the professional advisory, and support, body for Critical Care Scientists (CCS). The Society holds the voluntary membership list for Critical Care Scientists, and is an active member of the National School of Healthcare Science and the Academy for Healthcare Science, in the division of Physiological Sciences. It is the Society’s aim, on behalf of its members, to promote and develop safe and effective use of current and new technological systems for the benefit and care of the critically ill patient. A Critical Care Scientist is a specially trained Healthcare Scientist with expert knowledge of physiology and the technology required to deliver care to critically ill patients. The CCS works as part of a multi-professional team in many critical care environments. CCS responsibilities include the management, use and troubleshooting of life support systems. E.g. Ventilators, Physiological Monitoring Devices, Infusion Devices. The CCS also provides expert level training on these devices ensuring consistently safe and effective application. Website: www.criticalcaretech.org.uk

The Society for Cardiological Science and Technology (SCST) was first established in 1948. The primary aims of the Society are to advance the science and practice of cardiac technology and allied subjects for public benefit, actively promote high quality standards of education and training and promote cardiac research. SCST has close links with the British Cardiovascular Society, which represents the medical specialists in cardiology. Annually the SCST undertakes to provide professional examinations for members. Website: www.scst.org.uk

Serious Hazards of Transfusions is the United Kingdom’s independent, professionally-led haemovigilance programme. Since 1996 SHOT has been collecting and analysing anonymised information on adverse events and reactions in blood transfusion from all healthcare organisations involved in the transfusion of blood and blood components in the United Kingdom. Where risks and problems are identified, SHOT produces recommendations to improve patient safety. The recommendations are circulated through its annual report to all the relevant organisations including the four UK Blood Services, the Departments of Health in England, Wales, Scotland and Northern Ireland, the relevant professional bodies and to all of the reporting hospitals. SHOT can also monitor the effect of the implementation of its recommendations. Website: www.shotuk.org
The Society for Radiological Protection is the UK Associate Society affiliated to the International Radiation Protection Association (IRPA). Formed in 1963, it is a major scientific society for all who are concerned professionally with the safety aspects of ionising and non-ionising radiation. Members are drawn from education, central and local government, industry, medicine and research. Its key objectives are:

- To promote the science and art of radiation protection
- To disseminate knowledge and support relevant education
- To promote high professional standards to the public benefit

The Society has a programme of scientific meetings, workshops and seminars covering the full range of radiation protection and topical issues. The Society currently has over 2000 members and, outside the USA, is the largest radiological protection society in the world.

Website: www.srp-uk.org

The Society for Vascular Technology (SVT) was formed in 1992 to advance non-invasive vascular diagnostic services by promoting training and research in Vascular Technology and to disseminate the results of such research for the benefit of the public. In bringing together all those engaged in providing vascular laboratory services, the SVT functions as the national scientific and educational society for Clinical Vascular Scientists working in Great Britain and Ireland. The society has developed a national programme of standardised professional training supported by an Accreditation scheme. The Accreditation certificate gives employers and patients confidence that the clinician has reached and maintains the national standards set for vascular ultrasound investigations. The SVT was one of the parent bodies of the Consortium for Accreditation of Sonographic Education (CASE) in 1993.

Website: www.svtgbi.org.uk

The UK Council for Health Informatics Professions is the voluntary regulation and registration body for Health and Social Care Informatics in the United Kingdom. UKCHIP maintains that it is essential that those working in the profession should meet defined standards of conduct and competence to ensure their work is safe, ethical, efficient and addresses the needs of modern health and social care.

UKCHIP's vision is that health informatics is recognised as a valued profession in both the public and private health care sectors throughout the United Kingdom and that anyone who spends a substantial proportion of their role or time working in health informatics will be registered with UKCHIP and thereby certified as a professional who meets defined standards of professional conduct and competence.

Website: www.ukchip.org