Preliminary Programme

A three day multidisciplinary Congress covering all aspects of diagnostic imaging and oncology, as well as radiology informatics and service delivery.

Early Registration Deadline: 15 April 2009

Monday 8 - Wednesday 10 June
Manchester Central, UK

Congress President: Dr Stephen Davies
Vice Presidents: Dr Andrea Rockall, Dr Stephen Keevil, Dr Erika Denton, Dr Laurence Sutton

Preliminary Programme

2009 UKRC

Joint congress between The British Institute of Radiology, the College of Radiographers, The Institute of Physics & Engineering in Medicine & The Royal College of Radiologists

www.ukrc.org.uk

Official Preliminary Programme Sponsor

NHS

NHS Supply Chain
In 2008 NHS Supply Chain launched its first ever National Framework Agreement for Diagnostic Imaging.

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We aim to deliver value and expertise to your organisation. For more information about this event or to arrange a meeting with one of our consultants, contact: sam.wood@supplychain.nhs.uk

Tel +44 (0) 1773 724089
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* Based on NHS Supply Chain sales & supplier data 2008 YTD
WHO SHOULD ATTEND?

It is with great pleasure that I invite you to attend UKRC 2009 in Manchester. The Congress Vice Presidents and BIR conference organisers have worked hard to deliver an excellent programme with a vibrant exhibition and social programme.

Innovations introduced in UKRC 2008 have been developed in 2009. The popular Sunrise sessions will run again, and also this year there will be an MRI school and the popular Digital Imaging school – Optimising the Digital Image. The Eponymous Lectures will cover a range of topics from percutaneous ablation in interventional radiology through osteogenesis imperfecta, Terahertz imaging and imaging informatics – the key to success for future radiology. At the exhibition, we will build on the popular Satellite lecture series run by our industry and exhibition partners. We will also build upon the successful ‘Education on the Stand’ series which enabled close-up education with our industry and exhibition partners.

Once again we will be holding the Gala Dinner. For those who missed the 2008 event, the opportunity will present itself again in 2009 – turn to page 23 for more information.

The full programme can be seen on pages 9-21, and further information is available on www.ukrc.org.uk. I hope that you will attend UKRC 2009 in Manchester and look forward to meeting you there.

Stephen G Davies, UKRC 2009 Congress President
UKRC 2009 can justifiably claim to be a truly multidisciplinary congress. The congress is attended by the whole radiology community, including commercial partners across the range of industry and technology involved in radiology. Running alongside the congress, the UKRC exhibition is the country's largest and most comprehensive exhibition in the medical imaging and healthcare field, displaying a large array of products and services, including:

- The largest medical imaging equipment show in the UK
- Meet the right people from some of the world's leading companies
- View the latest developments in your field and discuss your future requirements – all under one roof!
- Network informally with friends and colleagues
- FREE Eponymous Lectures and Satellite Sessions
- FREE admission to the Scientific Poster Exhibition
- FREE copy of the UKRC Congress Guide

PLUS Education on the Stand – an opportunity to take part in structured and approved learning during the exhibition. Participating exhibitors will present information on new technology and developments, and new techniques and technological advances in medicine; providing a less formal environment for high quality educational opportunities.

Highlights of UKRC 2009

In UKRC 2008 there were a number of important innovations including satellite sessions with exhibitor partners, Education on the Stand and interactive clinical sessions in the invited speaker programme. These innovations will be developed in 2009, with a full programme of satellite sessions in the exhibition hall lecture area.

The Eponymous Lectures deserve a special place in the congress – speakers will be delivering on a wide range of topics, from interventional percutaneous ablation, Terahertz imaging and spectroscopy, and osteogenesis imperfecta – past, present and future, through to imaging informatics – key to success for the future of radiology. UKRC 2009 also sees the return of the radiography student session and the Junior Radiologists’ Forum, providing opportunities for juniors and trainees within the congress.

There is a special focus on trauma radiology in UKRC 2009 with an excellent wide-ranging programme. The trauma series in UKRC 2008 proved exceptionally popular so you are encouraged to take your seats early for this series. Highlights include a session on Military Radiography, illustrating some of the challenges that can face radiology when it is practised in unfamiliar environments.

Thanks go to the following special interest groups who have contributed to the exhibition: British Society of Skeletal Radiologists, British Society of Thoracic Imaging and BAMMR (British Association of MR Radiographers) together with the UK PACS and Teleradiology Group.

For further details on these highlights, and for the rest of the programme, turn to pages 9-21 or visit www.ukrc.org.uk.

UKRC list of exhibitors to date

4 Ways Healthcare
A. Somerville Ltd
Agfa HealthCare UK Ltd
APC Cardiovascular Ltd
Asterl Ltd
Athona Healthcare Recruitment Ltd
The British Institute of Radiology
BSHR
Carestream Health
The College of Radiographers
Computer Assisted Radiology and Surgery
Covidien (UK)
Elsevier Ltd
ETS – Lindgren Ltd
European Telemedicine Clinic
First Call Medical
FUJIFILM UK Ltd
GE Healthcare
Health Professions Council
Hitachi Medical Systems
Hospital Services Ltd
International Healthcare Recruitment Specialists
IPEM
ISRRT
Kirkham Young Ltd
Landauer Europe
Lodestone Patient Care
Medica Group
Medical Imaging Group
Medrad UK
Metrasens Ltd
Mirion
NHS Improvement
NHS Supply Chain
PACGEAR Inc.
Philips Healthcare
Philips Speech
Protec Medical Ltd
Pukka-j Ltd
QADOS
The Royal College of Radiologists
Sectra
Siemens Healthcare
SonoScape
Sonosite Ltd
Southern Scientific Ltd
Territorial Army Medical Services
Toshiba Medical Systems Ltd
United Kingdom Accreditation Service
Vertec Scientific Ltd
Zonare Medical Systems
Professor Dr Stephen Keevil – and currently an EPSRC Advanced Fellowship and Readership holding first a Royal Academy of Engineering Fellowship, faculty position, developing terahertz science and technology, since 2003 he has worked at the University of Leeds in a frequencies. In 2002 he was elected Fellow and Director of London. In 2000, he was awarded a PhD in Physics at the John Cunningham obtained his BSc degree in Physics from the Bristol Royal Infirmary. She now specialises in paediatric radiography; taking a post at Bristol Royal Hospital for Children in 1995, and rising to the post as a Fellow of the Abdominal Radiology Society. She has been on the Editorial Board of a number prestigious radiology journals including Radiology, The American Journal of Roentgenology, Clinical Radiology, and Cardiovascular and Interventional Radiology. He is the past Editor-in-Chief of Seminars in Interventional Radiology. He is the past President of the Society of Hepato-Biliary Radiology and the New England Roentgen Ray Society. He has received an Honorary Membership of the European Society of Interventional Radiology and the European Radiology Society. He has received the Gold Medal from the British Interventional Radiology Society, and given the prestigious Dotter Lecture for the American Society of Interventional Radiology. He is President Elect of the Abdominal Radiology Society.

In High Frequency Electronics and Terahertz Photonics. His research team uses high-frequency radiation to investigate, and even change the properties of, systems ranging from nanostructured semiconductors, to biological molecules such as proteins and DNA.

The Royal College of Radiologists Tesla Lecture
The Growth of Percutaneous Ablation in the United States and Europe over the last 20 Years: Where have we been? Where are we going?
P. Mueller, Massachusetts General Hospital, Boston, MA, USA

Peter Mueller completed his medical training at the University of Cincinnati, Cincinnati, Ohio. After that he was a resident in Radiology at the Massachusetts General Hospital, Department of Radiology, Boston, MA. His primary clinical and research interest is in interventional radiology, especially in biliary intervention and percutaneous ablation of malignant tumours of the liver and kidney.

Professor Mueller has been on the Editorial Board of a number of prestigious radiology journals including Radiology, The American Journal of Roentgenology, Clinical Radiology, and Cardiovascular and Interventional Radiology. He is the past Editor-in-Chief of Seminars in Interventional Radiology. He is the past President of the Society of Hepato-Biliary Radiology and the New England Roentgen Ray Society. He has received an Honorary Membership of the European Society of Interventional Radiology and the European Radiology Society. He has received the Gold Medal from the British Interventional Radiology Society, and given the prestigious Dotter Lecture for the American Society of Interventional Radiology. He is President Elect of the Abdominal Radiology Society.

The Royal College of Radiologists

Visit www.ukrc.org.uk for the most up-to-date information on all proffered presentations at UKRC 2009

UKRC Programme Organising Committees

2009 President – Dr Stephen Davies; 2010 President – Dr Erika Denton

Advances in Technology
Dr Stephen Keevil – Vice President
Alison Murray
John Totman
Matthew Dunn
Andrew Todd-Pokropek
Giles Roditi

Clinical
Dr Andrea Rockall – Vice President
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Carl Roobottom (Cardiac)
James Entwisle (Chest)
Gerardine Quagebeur (Neuro)
Matthew Matson (Interventional)

Digital Imaging
Dr Laurence Sutton – Vice President
Dave Harvey
Jason Oakley
Neelam Dugar
Nicola Strickland
Adele Maddison

Service Delivery
Dr Erika Denton – Vice President
Glynis Wivell
David Tennant
Hannah McRitchie
Andy Thomas
Lesley Wright

Poster Co-ordinator – Dr Sathi Sukumar
## Programme Grids & Overviews

### Monday 8 June 2009

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Monday 8 June 2009

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| 0830-0930  | MRI school I – knee                                                                               | Dr Christine Heron                                                                  | To review the biomechanics, pathophysiology and MRI appearances of common meniscal, ligamentous, osteochondral and extensor mechanism injury processes | 1. Understand the normal function and MRI appearances of the menisci, ligaments, osteochondral unit and extensor mechanism
2. Review the MRI appearances of the menisci, ligaments, osteochondral unit and extensor mechanism
3. Illustrate post-treatment MRI appearances

0830 MRI knee: Menisci, ligaments and beyond, Dr Nigel Raby, Western Infirmary, Glasgow
0900 MRI knee: Joint surfaces, extensor mechanism and bursae, Dr Philip Robinson, St James’ University Hospital Trust, Leeds |

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| 0830-0930  | Tips and tricks in biopsy? Biopsy disasters and how to get out of them                          | Dr Stephen Lee                                                                      | To provide tips and tricks for the general radiologist in performing biopsies under imaging control | 1. To understand the role of the general radiologist in performing biopsies
2. To understand the different routes of access for biopsy in different organs
3. To understand potential complications of biopsy in various organs and recognise the imaging appearance

0830 Top tips in biopsy: Optimising yield and minimising complications, Dr Andrew Hatrick & Dr Nicholas Hughes, Consultant Radiologists, Frimley Park Hospital, Surrey |

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| 0830-0930  | Chest scientific session                                                                         | Mr Jason Oakley                                                                    | A teaching session aimed at radiographers, radiologists and physicists who wish to learn how to achieve the best CR image | 1. An understanding of the basic physics of image formation with CR
2. A familiarity with practical issues involved in the effective use of CR
3. An appreciation of how to optimise the image formation process, recognise artefacts and how to maintain quality

0830 The basics of the digital image and CR, Mr Philip Doyle, Gartnavel Royal Hospital, Glasgow
0855 Radiography practice with CR, Dr Terry Jones, Swansea NHS Trust
0920 Questions |

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| 1000-1200  | BSTI chest radiology interactive session                                                         | Dr James Entwisle                                                                  | To provide an update on three important topics in thoracic imaging: lung cancer, pulmonary embolic disease and TB | 1. To understand the new revised TNM classification of lung cancer and the strengths and weaknesses of CT and PET in staging
2. To understand the role of d-dimer in managing patients with suspected PE
3. To be confident interpreting CTPA and isotope scans, and understand the additional information available on positive and negative CTPA scans
4. Recognise patterns of mycobacterial infection, including atypical infection and infection in the immunocompromised host

1000 Update on the staging of lung cancer, Dr John Reynolds, Birmingham Heartlands Hospital, Birmingham
1100 Imaging of pulmonary embolism, Dr John Curtis, University Hospital Aintree, Liverpool
1130 Imaging of mycobacterial infection, Dr Stephen Ellis, Barts and the London Hospital, London |

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| 1000-1200  | Revalidation, recertification and CPD across the imaging workforce                               | Professor Andy Adam, President, The Royal College of Radiologists                   | To give an overview of these issues for the whole imaging workforce | 1. Understand reasons for changes in doctors’ licences to practice
2. Understand processes proposed for revalidation and recertification of radiologists
3. Understand the CPD processes for radiographers
4. Educate the whole workforce in changes applicable to their colleagues

1000 Revalidation of doctors: Why and how? Mr Finlay Scott, GMC
1030 The future of CPD for radiographers, Professor Audrey Paterson, Society and College of Radiographers, London
1050 Revalidation of radiologists: How will we do it? Dr Jane Adam, St George’s Hospital
1110 The patient perspective of revalidation, Dr Chris Wiltshire, Clinical Radiology Patients’ Liaison Group
1130 Panel discussion and questions |
1000–1130  PACS scientific session
Moderator: Professor Eliot Siegel
**Aim:** An overview of experiences from users of PACS and inter-related healthcare systems in improving the management of patients
**Outcomes:**
1. To understand how patients have benefited from the efficient use of available technology
2. To understand what gaps remain in delivery imaging services
3. To learn from those who have undertaken the challenges of implementing new technology
1000 The top five key elements in achieving a full clinical PACS, Professor Eliot Siegel, University of Maryland, Baltimore, USA
1020 Proffered papers

1000–1200  BAMRR – hot topics
Moderator: BAMRR representative (tbc)
**Aim:** A special focus group session organised by the British Association of MR Radiographers to provide a forum for MR radiographers, physicists and radiologists to share up-to-date knowledge of techniques and protocols and to keep abreast of current safety issues
**Outcomes:**
1. To understand current techniques used for stroke imaging and how these affect outcomes
2. To understand current techniques used for MR imaging of the breast and the implications of implementing screening programmes
3. To give an overview of techniques used for foetal/neonatal and postmortem imaging and how these are used to demonstrate developmental abnormalities
4. To keep attendees updated on current MR safety ‘hot topics’
1000 Stroke imaging – overview and current recommendations, Dr Kate Garas, c/o Society of Radiographers, London
1030 Advances in breast imaging, Mrs Cheryl Richardson, Royal Marsden Hospital, London
1100 Foetal, neonatal and postmortem imaging – the Sheffield experience, Ms Gail Darwent, University of Sheffield, Sheffield
1130 MR Safety Update 2009, Dr Barrie Condon, Institute of Neurological Sciences, Glasgow

1000–1100  Does distributed reporting undermine the quality of a local service?
**Aim:** To discuss the issues related to distributed reporting and how it can support local strategies for high quality service delivery
**Outcomes:**
1. An understanding of the local service challenge and how it can be supported
2. An understanding of the quality challenge and how it can be enhanced
3. An understanding of the technology challenge and how it can be achieved
1100 Foetal, neonatal and postmortem imaging – the Sheffield experience, Ms Gail Darwent, University of Sheffield, Sheffield

1000–1200  Service delivery scientific session
1000 Proffered papers

1030–1200  How to image the spine
Moderator: Dr Margaret Hourihan
**Aim:** To provide a topical refresher session on state-of-the-art imaging possibilities in the investigation of spinal disease, and review the current status of spinal intervention
**Outcomes:**
1. To understand indications for investigation of spinal disease and to be confident in the choice of appropriate imaging methods, including advanced MR techniques such as DWI and MRA
2. To understand the range of pathology that can present in similar clinical ways and be aware of the various imaging findings
3. To become aware of the possibilities for spinal intervention and understand the indications and timing for appropriate patient referral
1030 The imaging of cervical and lumbar radiculopathy, Dr Chris A Rowland-Hill, Hull Royal Infirmary, Hull
1100 The imaging of myelopathy including vascular causes, Dr John Straiton, Leeds General Infirmary, Leeds
1130 Current status of interventional techniques in spinal disease, Dr David Wilson, Nuffield Orthopaedic Centre, Oxford

1030–1200  Interventional keynote lecture and scientific session
**Outcomes:**
1. To understand the clinical benefits to patients of offering a holistic service
2. To understand the clinical governance issues that underpin the development of a clinical practice
3. To appreciate the rewards of professional development in offering a holistic service
1030 Developing a clinical practice; an evolving role of the radiologist, Professor Peter Gaines, Sheffield Vascular Institute, Sheffield
1100 Proffered presentations

1100–1200  CT cardiovascular imaging
**Siemens Healthcare**
**Aim:** A review of the current situation in cardiac imaging (covering use of beta blockers and dose reduction techniques, including adaptive sequence scanning) and to discuss dual source CT and the effect of no beta blockers on patient safety and workflow

1230–1315  RCR Tesla Lecture
1230 The growth of percutaneous ablation in the United States and Europe over the last 20 years: Where have we been? Where are we going? Professor Peter Mueller, Massachusetts General Hospital, Boston, MA, USA
1345–1515  E-Learning: Its place in radiology training and CPD

Moderator: Dr Richard Fowler
Aim: To put into perspective the role of e-learning in radiology education and training with focus on the Radiology Integrated Training Initiative (R-ITI) including future developments into CPD and revalidation

Outcomes:
1. To understand the original drivers for R-ITI and its subsequent applications
2. To understand the educational design behind R-ITI and why the Electronic Learning Database Model (e-LD) and Validated Case Archive (VCA) have been created
3. To appreciate the scope, content and structure of the e-LD and VCA
4. To view the R-ITI from a trainee’s perspective – What is good? What should be better?
5. To be able to successfully incorporate R-ITI materials and methods into your local radiology training
6. To describe the value of learning pathways
7. To form an opinion on how R-ITI materials can be used to promote CME, CPD and revalidation
8. To understand how we can all contribute to the initiative

1345  The Radiology Integrated Training Initiative: past, present and future, Dr Richard Fowler, Leeds General Infirmary, Leeds

1405  Trainees’ experience with R-ITI: What is good? What should be better? Dr Tony Goldstone, Leeds Teaching Hospitals NHS Trust

1425  How to successfully incorporate R-ITI into a training scheme – learning pathways, Dr Bruce Fox, Plymouth Hospitals Trust

1445  The Validated Case Archive (VCA) – our route to successful national image sharing and forward to CPD and revalidation, Dr Philip Cook, Royal Cornwall Hospital (Treloy), Truro

1515  Questions

1345–1445  Dynamics of using a wireless cassette-sized DR in general radiography

Carestream Health
Aim: To describe results from facilities who gained productivity and flexibility in digital X-ray beyond traditional CR and DR

Outcomes:
1. Attendees will gain an appreciation of the pros and cons of moving to DR in X-ray
2. Attendees will be made aware of current DR technology and its strengths and weaknesses
3. Attendees will understand real experiences from practical examples and cogent data extracted from facilities that have tested cassette-sized DR systems

1400–1530  Trauma imaging: Head, face and craniocervical junction

Moderator: Dr Phil Hughes
Aim: To emphasise the importance of technique and careful interpretation in the high tariff areas of craniofacial and abdominal trauma using an interactive teaching format

Outcomes:
1. Demonstration of important anatomical detail
2. Emphasise technical considerations that facilitate interpretation
3. Top tips to avoid interpretative errors

1400  Head injuries: patterns of injury, Dr Will Adams, Derriford Hospital, Plymouth

1430  Facial trauma: What makes a difference? Dr Stephen Connor, King’s College Hospital, London

1500  Imaging the craniocervical junction, Dr Kathirkamanathan Shanmuganathan, University of Maryland Hospital, Baltimore, USA

1400–1530  Management of acute chest pain: What every radiologist needs to know

Moderator: Dr Peter Wilde
Aim: To outline the expanding role of medical imaging in the management of patients with chest pain

Outcomes:
1. To understand the changing management of patients with cardiac ischaemia
2. Appreciate the importance of imaging in the diagnosis of chest pain

1400  Acute coronary syndromes and their management: What the radiologist needs to know, Dr Jonathan Hill, King’s College, London

1420  Acute aortic syndromes, Dr Duncan Ettles, Hull Royal Infirmary, Hull

1440  Cardiac CT angiography: Its role in acute chest pain, Dr Carl Roobottom, Derriford Hospital NHS Trust, Plymouth

1510  Cardiac MRI: Its role in the management of patients with acute chest pain, Dr Nick Bellinger, Royal Devon and Exeter Hospital, Exeter

1400–1700  Delivering imaging after 18 weeks: A no-wait service?

Moderator: Dr Richard Fitzgerald
Aim: To provide an insight into key current policy areas for the Department of Health with an impact on imaging

Outcomes:
1. To understand the role of imaging, its involvement and progress in delivering Department of Health priorities
2. To understand the implications for imaging services of current policy drivers

1400  Imaging in the DH after 18 weeks, Dr Erika Denton, Norfolk & Norwich NHS Hospital

1430  Discussion

1440  Delivering imaging services to support the cancer reform strategy, Dr Matthew Wallis, Addenbrooke’s Hospital, Cambridge

1500  An imaging strategy for paediatrics, Dr John Somers, Nottingham University Hospitals NHS Trust

1520  Discussion

1530  Break

1600  Delivery of imaging services for the stroke strategy, Dr Phil White, Western General Hospital, Edinburgh

1625  AAA screening – how will we implement it? TBC
## 1400–1530 Radiation protection

**Moderator:** Mr Matthew Dunn  
**Aim:** To update participants on current topical issues in radiation protection  
**Outcomes:** 1. To understand issues of dose justification and optimisation in CT, particularly in the context of screening asymptomatic individuals  
2. To understand the latest developments and guidance with regard to radiation protection in radiotherapy  
3. To understand the latest developments in e-learning to support IRMER training  

**1400 CT scanning – justification and optimisation in acute care and in the community, Dr Chris Gibson, Oxford Radcliffe Hospitals NHS Trust**  
**1430 e-IRMER training, Mr Stephen Evans, Northampton General Hospital NHS Trust**  
**1500 Radiation protection in radiotherapy, Dr Edwin Aird, The Hillingdon Hospital NHS Trust**

## 1400–1530 Imaging in stroke and TIA

**Moderator:** Dr John Straiton  
**Aim:** To emphasise the reasons for imaging in stroke and TIA with emphasis on different imaging techniques and potential outcomes  
**Outcomes:** 1. To fully understand Government targets and guidelines and their implications  
2. To be confident in the choice, timing and interpretation of imaging modality and understand the potential value of advanced imaging techniques  
3. To understand the clinical implications and potential treatment of TIA, thus being able to provide optimal imaging support  

**1400 Why and when to image in TIA? How do I comply with these ‘targets’? Dr Phil White, Western General Hospital, Edinburgh**  
**1430 Imaging methods and findings in acute stroke – CT and MR based: What do I need to report? Dr Jonathan Gillard, Addenbrooke’s Hospital, Cambridge**  
**1500 TIA – why, when and how to investigate and how should they be treated? Professor Peter Rothwell, John Radcliffe Hospital, Oxford**

## 1430–1730 Interventional oncology: State-of-the-art minimally-invasive treatment of tumours

**Moderators:** Dr Matthew Motson & Professor Peter Gaines  
**Aim:** To update the whole imaging workforce in the modern minimally-invasive treatment options for common tumours  
**Outcomes:** 1. To understand the indications and contraindications for minimally invasive therapy, depending on the pre-procedural imaging findings  
2. To learn the techniques available and their advantages and disadvantages  
3. To understand the post-procedural imaging, recognise normal appearances, disease recurrence and the appearance of complications  

**1430 Locoregional therapies for hepatocellular carcinoma, Dr John Karani, King’s Healthcare NHS Trust, London**  
**1455 When to ablate liver metastases, Dr Pauline Kane, King’s College Hospital, London**  
**1520 Minimally-invasive techniques for tumours in bone, Dr Afshar Gangi, Strasbourg, France**  
**1545 Break**  
**1615 Minimally-invasive techniques for breast tumours, Dr Robin Wilson, King’s College Hospital, London**  
**1640 Ablation of lung tumours, Dr Alice Gilliams, UCH, London**  
**1705 Minimally-invasive techniques for renal tumours, Dr David Breen, Southampton University Hospitals NHS Trust, Southampton**

## 1430–1630 History session

**Moderator:** Dr Adrian Thomas  
**Aim:** To provide an overview of current research and developments in the history of radiology  
**Outcomes:** 1. To learn about the Bragg Heritage Group in Australia and the contributions that the Braggs have made to our understanding of the nature of matter using X-ray techniques  
2. To understand aspects of radiology abroad including the developments in Argentina and on the Salonika Front in the Great War  
3. To become aware of the development of the Radiology Section of the Royal Society of Medicine and how that section influenced the organisation of radiology in the UK  
4. To understand the contribution that the Christie Hospital and Manchester made to the development of radiotherapy  
5. To understand the value of the British Journal of Radiology and the importance of having the journal as an online archive  

**1430 The retro-digitisation of the British Journal of Radiology, Dr Adrian Thomas, Princess Royal University Hospital**  
**1450 X-rays, the Braggs and the Royal Institution in Australia – a South Australian perspective, Dr Rob George, The Bragg Heritage Group, Australia**  
**1510 Radiology on the Salonika front, Dr Gerry Lividas, G, AB!, Medical Supplies Ltd, Greece**  
**1530 The history of radiotherapy at the Christie Hospital, Dr Andy Pitt, Christie Hospital, Manchester**  
**1550 Radiology in Argentina, Professor Alfredo Buzzi, University of Buenos Aires**  
**1610 100 years of the radiology section of the RSM, 1907–2007, Dr Arpan Banerjee, Birmingham Heartlands Hospital**

## 1445–1545 Advances in cardiac and perfusion CT using a wide detector 256 slice CT scanner

**Philips Healthcare**  
**Aim:** To share knowledge about the power of cutting-edge CT technology to improve clinical diagnosis, especially in cardiac CT  
**Outcomes:** 1. Greater awareness of cutting-edge CT technology  
2. Demonstration of many clinical cases including coronary artery and functional imaging  
3. Understanding of the potential of whole organ CT perfusion scanning
1545–1730 Accreditation for UK imaging services

Moderator: Dr Conall Garvey
Aim: To demonstrate how strategic thinking and joint working by professional bodies have resulted in a service accreditation model and a framework that supports the imaging community, ready to meet the challenges of current healthcare policy.
Outcomes:
1. Understand what accreditation is and its potential to assure safety and enhance patient quality
2. Understand how accreditation fits within current health policy expectations
3. Understand how The Royal College of Radiologists (RCR) and the Society and College of Radiographers (SCoR) are working together to support development and implementation of an accreditation scheme for UK imaging services.
4. Understand how the deliverables from the Radiology Accreditation Programme (RAP) project have been further developed to become the Imaging Services Accreditation Scheme (ISAS).

1545 Accreditation, Dr Conall Garvey, The Royal College of Radiologists
1600 Current patient safety and quality policy: Expectations, TBC from The Department of Health, England
1620 Providing professional leadership for accreditation, Professor Audrey Paterson, The Society and College of Radiographers
1640 Transition from project to reality, Dr Jane Beaumont and Ethna Glean, United Kingdom Accreditation Services
1705 Panel discussion, Speakers: see all above

1600–1730 Trauma imaging: Bowel injury, CT signs of vascular injury and paediatric considerations

Moderator: Dr Phil Hughes
Aim: To emphasise the importance of technique and careful interpretation in the high tariff areas of craniofacial and abdominal trauma using an interactive teaching format.
Outcomes:
1. Demonstration of important anatomical detail
2. Emphasise technical considerations that facilitate interpretation
3. Top tips to avoid interpretative errors

1600 Abdominal trauma: Active bleeding, pseudoaneurysms and AV fistulas, Dr Kathirkamanathan Shanmuganathan, University of Maryland Hospital, Baltimore, USA
1630 Abdominal trauma: Bowel injury, Dr Bruce Fox, Plymouth Hospitals Trust, Plymouth
1500 Special considerations in children, Dr Nigel Broderick, Nottingham University Hospital, Nottingham

1600–1730 Chest scientific session II

0830 Proffered papers

1600–1730 Neuro/head & neck keynote and scientific session

Moderators: Dr Chris Rowland Hill & Dr Gerardine Quaghebeur
1600 A white matter lesion! Help! Do I report it? Dr Margaret Hourihan, University Hospital Wales, Cardiff

1600–1730 Advances scientific session

Moderator: Dr Chris Gibson
1600 Proffered papers

Tuesday 9 June 2009

0830–0930 MRI school II – ankle

Moderator: Dr Richard Whitehouse
Aim: To review normal anatomy and pathology of the ankle – intra-articular and extra-articular
Outcomes:
1. Understand the normal intra and extra-articular anatomy of the ankle
2. Review the MRI appearances
3. Gain an understanding of the MRI appearances of common pathology arising in and around the ankle joint

0830 Ankle pain and instability, Dr Abdul Gafoor, Derriford Hospital
0900 MRI ankle – tendons and other soft tissues, Dr Shah Khan, The Beardwood Hospital

0830–0930 Cardiac imaging for the non-cardiac radiologist

Moderator: Dr Richard Coulden
Aim: To highlight cardiac pathologies that may be seen on non-dedicated scans of the thorax
Outcomes:
1. To relay knowledge about important cardiac conditions that the radiologist must not miss
2. Demonstration of cardiac pathologies on MRI
3. Demonstration of cardiac pathologies on CT

0830 Important cardiac pathology that may be seen on MRI, Dr Stephen Harden, Southampton General Hospital, Southampton
0900 Important cardiac pathology that may be seen on chest CT, Dr Patrick Sparrow, Derriford Hospital
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<td>0830</td>
<td>Optimising the digital image: From exposure to presentation – DR</td>
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<td><strong>Moderator:</strong> Dr Jason Oakley</td>
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<td><strong>Aim:</strong> A teaching session aimed at radiographers, radiologists and physicists who wish to acquire the knowledge of achieving the best DR image</td>
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|       | **Outcomes:** 1. An understanding of the basic physics of image formation with DR  
|       | 2. A familiarity with practical issues involved in the effective use of DR  
|       | 3. An appreciation of how to optimise the image formation process, recognise artefacts and how to maintain quality |
| 0830  | The basics of the digital image and DR, Dr John Kotre, Newcastle General Hospital, Newcastle    |
| 0855  | Radiography practice with DR, Dr Philip Cosson, University of Teesside, Middlesbrough           |
| 0900  | Effective imaging services                                                                       |
| 0900  | **COR Stanley Melville Memorial Lecture – patient safety, risks in healthcare and promoting a safe culture, Dr Jason Leitch, The Scottish Government, Edinburgh** |
| 0930  | 0930-1130 Service delivery scientific session                                                   |
| 0930  | Proffered papers                                                                                |
| 0945  | Genitourinary keynote and scientific session                                                     |
| 0945  | **Moderators:** Dr Andrea Rockall & Dr Anwar Padhani                                            |
| 0945  | **Aim:** To evaluate the role of prostate imaging in staging and follow-up                    |
| 0945  | **Outcomes:** 1. To understand the indications for prostate MRI in newly-diagnosed patients with ca prostate and how these fit in with treatment options  
| 0945  | 2. To know the imaging appearances and staging of prostate cancer and to recognise the pitfalls  
| 0945  | 3. To understand the role of MRI in evaluating patients with suspected relapse                  |
| 0945  | Imaging prostate cancer: State of the art, Dr Anwar Padhani, Mount Vernon Hospital, Middlesex    |
| 1015  | Proffered papers                                                                                |
| 0945  | 0945-1045 Is there more to a multi-functional fluroscopy room? Advancements in 3D imaging capability |
| 0945  | **Philips Healthcare**                                                                          |
| 0945  | **Aim:** To show the wider radiology community that a screening room does not have to be restricted to existing examinations and workflow and that in this changing environment, the screening room can be looked at as an asset |
| 0945  | **Outcomes:** 1. Service expansion and learning to make more use of the fluroscopy system    
| 0945  | 2. Become more aware of developing techniques                                                   |
| 0945  | 3. Become more aware of developing technologies                                                  |
| 0945  | **Speakers:** Stephanie Holden, Business Leader X-ray and Tina Flannery, Modality Sales Specialist X-ray |
| 1000  | Back to basics MSK                                                                             |
| 1000  | **Moderator:** Dr Jeremy Jenkins                                                                |
| 1000  | **Aim:** To provide a refresher course on state-of-the-art imaging in inflammatory arthropathies |
| 1000  | **Outcomes:** 1. Review the pathophysiology of inflammatory arthropathies                      
| 1000  | 2. Understand the appropriate imaging modalities and indications for imaging to evaluate inflammatory arthropathies  
| 1000  | 3. Review the imaging appearances in inflammatory arthropathies                                |
| 1000  | Plain films – role in diagnosis and management of inflammatory arthropathies, Dr Hifz Aniq, Royal Liverpool University Hospital, Liverpool |
| 1030  | Ultrasound – role in diagnosis and management of inflammatory arthropathies, Dr SriPriya Suresh, Manchester |
| 1100  | MRI appearances of inflammatory arthritis and its mimics, Dr Andrew Grainger, Leeds Teaching Hospitals, Leeds |
| 1000  | Cardiac CT: How to do it                                                                        |
| 1000  | **Moderator:** Dr Carl Roobottom                                                                 |
| 1000  | **Aim:** To give an overview of how to perform and interpret cardiac CT angiography            |
| 1000  | **Outcomes:** 1. How to select appropriate patients for CT angiography                           
| 1000  | 2. How to optimise technique                                                                    |
| 1000  | 3. Image interpretation                                                                        |
| 1000  | Appropriate patient selection based on the scientific evidence, Dr Gareth Morgan-Hughes, Plymouth NHS Trust |
| 1020  | Basic technique, Dr Tarun Mittal, Brompton Hospital                                              |
| 1040  | Advanced technique: Keeping radiation dosage to a minimum, Dr Carl Roobottom, Derriford Hospital NHS Trust, Plymouth |
| 1100  | Image interpretation and accreditation, Dr Deepa Gopalan, Papworth Hospital                      |


**1000–1130  Carotid artery ultrasound workshop**

Moderator: Dr Paul Sidhu

Aim: To provide a comprehensive overview of the imaging techniques used to depict the extracranial carotid arteries, with emphasis on the practical aspects of carotid Doppler ultrasound

Outcomes:
1. To understand the important role of carotid Doppler ultrasound (CDUS) as the mainstay of carotid artery abnormalities and to appreciate the need for further imaging
2. To understand the role of other imaging, MRA and CTA, in relation to CDUS and to have a clear appreciation of the limitations of each of the techniques
3. To gain a basic understanding of the technique of CDUS to allow commencement of the practice

1000  A comprehensive overview of carotid Doppler ultrasound: From stenosis to dissection, Dr Paul Sidhu, King’s College Hospital, London

1030  MRA, CTA and DSA in carotid disease: Practicalities, pitfalls and limitations, Dr Matthew Adams, National Hospital for Neurology and Neurosurgery, London

1115  Practical demonstration: How to carry out a carotid Doppler ultrasound examination, Dr Paul Sidhu, King’s College Hospital, London

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**1000–1140  Maximising the benefits of PACS – current issues**

Moderator: Dr Richard Harries

Aim: An overview of current relevant issues related to PACS, particularly with regard to improving communication

Outcomes:
1. Provide broad understanding of the skills required to effectively manage PACS
2. Understand the potential benefits of decision support systems
3. Gain a basic knowledge of how Integrating the Healthcare Enterprise Framework (IHE) facilitates communication between healthcare organisations

1000  What PACS managers should know about PACS and IT, Dr Mike Tatlow, Maidstone and Tunbridge Wells NHS Trust

1020  The appropriate test? – a review of decision support applications: Can they make a difference?, Dr Tony Newman-Sanders, Mayday Hospital

1040  It's good to talk – the importance of the IHE Framework in day-to-day radiological practice, Dr Richard Harries, Diana, Princess of Wales Hospital, Grimsby

1110  Joined up thinking – a regional PACS come true? Dr Andrew Ward, Welsh Health Estates

1130  Questions

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**1000–1130  Into the blue skies: The future of breast imaging**

Moderator: Professor Andrew Todd-Pokropek

Aim: To explore imaging techniques that are currently under development but have future potential for clinical imaging of the breast

Outcomes:
1. Understand the principles and potential of the following emerging techniques:
   - Optical tomography
   - Phase contrast imaging
   - Digital breast tomosynthesis

1000  Optical tomography of the breast, Dr Adam Gibson, University College London, London

1030  Phase contrast X-ray imaging of breast tumours, Professor Robert Speller, University College London, London

1100  Digital breast tomosynthesis, Professor David Hawkes, University College London, London

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**1015–1130  Commissioning effective imaging**

Moderator: Dr Pete Cavanagh

Aim: To understand why commissioning is important for imaging services

Outcomes:
1. Understand how commissioning works
2. Understand how to use commissioning to deliver better services
3. Understand how to liaise with commissioners
4. Understand how to tell what is a good imaging service

1015  Commissioning effective imaging services, Dr Andy Bacon, North West SHA

1055  Proffered papers

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**1045–1145  Innovations in elastographic imaging**

Zonare Medical Systems UK Ltd

Aim: Review new techniques in elastography imaging

Outcomes:
1. Understand new methods in elastography
2. Learn how these apply to current clinical practices
3. Answer attendees’ questions on this topic

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**1200–1245  IPEM John Mallard Lecture**

1200  Terahertz imaging and spectroscopy – current and future modalities, Dr John Cunningham, The University of Leeds, Leeds

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**1300–1345  BIR AGFA Mayneord Lecture**

1300  Imaging informatics: The key to success for the future of radiology, Professor Elliot Siegel, University of Maryland, Baltimore, MD, USA
Managing the at-risk patient: Weighing up the evidence

**Aim:** An update on the current literature and practice relating to risk stratification of renally-impaired patients

**Outcomes:**
1. Update on the current knowledge/practice on NSF and CIN
2. Understanding the importance of identifying and managing at-risk patients appropriately pre-procedure and post-procedure
3. To consider the role of MDT in decision making around at-risk patient management

Musculoskeletal ultrasound workshop

**Aim:** To give an overview of the anatomy, ultrasound technique and disease processes that can occur in the shoulder, wrist and hand, and knee and ankle using live demonstration where appropriate

**Outcomes:**
1. To revise ultrasound anatomy and technique
2. To discover when ultrasound is useful in musculoskeletal disease

PACS horizons – UK PACS and Teleradiology Group session

**Moderator:** Dr Neelam Dugar

**Aim:** To provide an update on some of the current key issues with PACS and image data management and a view of future healthcare data management

**1415** Shoulder, Dr Gina Allen, University of Oxford and Dr David Wilson, Nuffield Orthopaedic Centre Oxford TBC

**1500** Wrist and hand, Dr Jonathan Harris, Salford Hospital Manchester and Dr Sarah Jackson, Salford Hospital Manchester

**1545** Lower limb (knee), Dr Roland Watura, Frenchay Hospital Bristol

**1630** Lower limb (ankle and foot), Dr Tom Marshall, Norfolk and Norwich Hospital and Dr Justin Lee, Chelsea and Westminster Hospital

Novel applications of diffusion MRI

**Moderator:** Dr Stephen Keevil

**Aim:** To explore novel applications of diffusion weighted and diffusion tensor MRI

**Outcomes:**
1. To understand the clinical potential and difficulties of diffusion tractography of muscle
2. To understand the emerging clinical role of DWI as a tool for screening for metastases
3. To understand the emerging field of diffusion kurtosis imaging and its potential applications in clinical neuroimaging

**1415** Diffusion kurtosis imaging of the brain, Professor Joseph Helpern, NYU School of Medicine, USA

**1445** Whole body diffusion weighted MRI: The new paradigm in metastases screening, Dr Nandita deSouza, Institute of Cancer Research, Sutton

**1515** Diffusion tractography of skeletal and cardiac muscle, Dr Bruce Damon, Vanderbilt University, Nashville, TN, USA

Future of PET

**Moderator:** Dr Alison Murray

**Aim:** A session exploring the future of PET technology and applications

**Outcomes:**
1. To understand future possibilities in PET detector technology
2. To understand the current role and future potential of PET in radiotherapy treatment planning
3. To understand the cutting edge in PET tracer development and its potential in clinical neuroimaging and in drug discovery

**1415** PET detector technology: Challenges and opportunities, Professor Alberto Del Guerra, University of California at Davis, CA, USA

**1445** The role of PET in radiotherapy, Professor Vincent Gregoire, Université Catholique de Louvain, Brussels, Belgium (TBC)

**1515** The future of PET in drug discovery and development, Professor Antony Gee, Imperial College London

**1545** Novel PET tracers for molecular imaging of the brain, Dr Andy Welch, University of Aberdeen
### 1430–1700 Musculoskeletal I & II

**Moderator:** Dr Andrew Grainger, Leeds Teaching Hospitals, Leeds

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### 1430–1600 Cardiac keynote and scientific session I

**Moderator:** Dr Carl Roobottom

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<tr>
<td>1430</td>
<td>Pushing the boundaries of perfusion CMR, Dr Sven Plein, Leeds General Infirmary, Leeds</td>
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<td>1455</td>
<td>Proffered papers</td>
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### 1415–1715 Lean methodology in radiology: How to put Lean principles into practice – a workshop

**Moderator:** Mr Richard Evans & Professor Philip Gishen

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<tr>
<td>1415</td>
<td>Patient safety: The real reason for Lean! Mr Stephen Ramsden, Luton and Dunstable Hospital NHS Foundation Trust</td>
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**Aim:** Lean and service improvement papers

**Outcomes:**
1. Understand why Lean is important for imaging services
2. Demonstrate the value of eliminating waste to improve quality and safety
3. Understand how and where Lean principles can be applied successfully

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<td>1515</td>
<td>Lean methodology in radiology: How to put Lean principles into practice, Lesley Wright, Lisa Smith &amp; Team, NHS CSCIP Radiology Service Improvement Team, Leicester</td>
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### 1500–1600 Multimodality breast imaging

**Siemens Healthcare**

**Aim:** Customers will learn about the new technologies and how they can be used to support the diagnosis and management of patients

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<td>CT urography: Which technique and when? Professor Stuart Silverman, Harvard Medical School, Boston, USA</td>
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<tr>
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<td>MR urologic imaging in the emergency room, Dr John Spencer, St James’ University Hospital Trust, Leeds</td>
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<tr>
<td>1615</td>
<td>Bladder cancer: MRI in staging and follow-up, Dr Bernadette Carrington, Christie Hospital, Manchester</td>
</tr>
<tr>
<td>1645</td>
<td>Sorting out retroperitoneal masses, Dr Andrea Rockall, St Bartholomew's Hospital, London</td>
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### 1515–1715 Update in urologic imaging

**Aim:** To review the current imaging techniques and interpretation in urologic pathology in an interactive setting

**Outcomes:**
1. To be familiar with the role of CT urography and understand the advantages and pitfalls of the technique in the outpatient and emergency settings
2. To be familiar with the imaging appearances and staging of bladder cancer on MRI and the role in follow-up
3. To know the range of differential diagnoses of masses arising in the retroperitoneum and to have a diagnostic strategy

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### 1600–1700 Consultant practice in radiography

**The Society and College of Radiographers**

**Moderator:** Dr Peter Ford

**Aim:** To showcase the breadth of consultant practice by presenting examples of innovations initiated by individual practitioners and to answer specific questions from delegates on aspects of consultant practice through a panel discussion

**Outcomes:**
1. Demonstrate the breadth of consultant practice
2. Explore issues around perceptions of the role
3. Answer specific questions or concerns from fellow professionals

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<th>Time</th>
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<tr>
<td>1600</td>
<td>So you think you do research? Ms Helen Jones, Royal Liverpool Hospital and Bev Snaith, Mid Yorkshire Hospitals NHS Trust</td>
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<tr>
<td>1615</td>
<td>So you want to do service improvement? Ms Lisa Punt, Addenbrookes Hospital</td>
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<tr>
<td>1630</td>
<td>So you want to be a consultant radiographer? Ms Judith Kelly, Countess of Chester NHS Foundation Trust</td>
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<td>1640</td>
<td>Panel discussion – Panel: Peter Ford, Helen Jones, Bev Snaith, Lisa Punt, Judith Kelly, Jane Bates and Celia Lewis</td>
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### 1630–1730 Cardiac scientific session II

**Moderator:** Dr Carl Roobottom

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<tr>
<td>1630</td>
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Programme

Wednesday 10 June 2009

0830-0930  MRI school III – shoulder
Moderator: Dr Rob Campbell
Aim: To familiarise the attendee with current MR imaging of rotator cuff disease and shoulder instability
Outcomes:
1. To understand mechanisms and patterns of injury in shoulder impingement/rotator cuff disease and instability
2. To be aware of state-of-the-art MR imaging techniques in rotator cuff disease and instability
3. To be able to precisely describe different types of rotator cuff tears and injuries resulting from instability and important associated features
0830  MRI shoulder – rotator cuff, Dr Waqar Bhatti, Wythenshawe Hospital, Manchester
0900  MRI shoulder – instability, Dr Andoni Toms, Norfolk and Norwich University Hospital, Norwich

0830-0930  A guide to PET/CT in the MDT
Moderator: Dr Conor Collins
Aim: To give an overview of the principles of PET/CT in patient management
Outcomes:
1. To know the main indications of PET/CT in clinical management and to be able to discuss whether PET/CT would be of benefit in common clinical scenarios within the MDT
2. To understand the main principles of the technique in order to ensure optimal images and to understand the potential pitfalls of the technique
3. To be able to interpret the reported images provided in the MDT and to recognise the typical pitfalls in interpretation
0830  Indications for PET/CT and principles for optimal images, Dr Ciaran Johnston, Barts and the London Hospital, London
0900  Principles of interpretation of PET/CT within the MDT: Pitfalls and perils, Dr Gary Cook, Royal Marsden Hospital, Surrey

0830-0930  Optimising the digital image: From exposure to presentation – DM
Moderator: Dr Jason Oakley
Aim: A teaching session aimed at radiographers, radiologists and physicists who wish to learn how to achieve the best mammographic image
Outcomes:
1. An understanding of the basic physics of image formation with DM
2. A familiarity with practical issues involved in the effective use of DM
3. An appreciation of how to optimise the image formation process, recognise artefacts and how to maintain quality
0830  Physics of digital mammography, Dr Adam Workman, Forster Green Hospital, Belfast
0855  Practical aspects of digital mammography, Dr Joanna Currie, Action Cancer House, Belfast
0920  Questions

0845-1015  Scientific session: Breast I
Moderator: Dr Erika Denton and Dr Barbara Dall
0845  Proffered papers
1015  Break

0845-1030  ISEG speaker and service delivery scientific session
Invited US lecture sponsored jointly by ASRT and SCoR
0845  Paediatric CT: Friend or foe? Professor Bettye Wilson, University of Alabama, USA

0900-1030  Different ways to deliver a patient-focused imaging service
Moderator: Dr Mike Bourne
Aim: To hear how imaging services can be delivered in new and innovative ways
Outcomes:
1. Understand how imaging can be delivered differently in UK practice
2. Understand what effective teleradiology services can do
3. Understand how Brazil delivers the best practice in imaging
0900  The Bolton experience, Ms Catherine Walsh, Radiology Business Manager, Bolton Hospital NHS Trust, Bolton
0930  Teleradiology across European boundaries – the Barcelona experience, Dr George McIlnnes, Telemmedicine Clinic, Barcelona, Spain
1000  The Sao Paolo experience, Dr Jose Marcelo Oliveira, Executive Director of Fleury Medicina Diagnostica, Laboratorio Fleury San Paulo, Brazil

0915-1015  Volume RAD: Applications of tomosynthesis in digital radiography
GE Healthcare
Aim: Showing the applications of tomosynthesis in the clinical setting with emphasis on the image quality achieved at comparatively low dose
Outcomes:
1. An understanding of the value of tomosynthesis in the emergency setting
2. A wider view, through case studies, of the applications of tomosynthesis compared to other modalities
3. A look into the future of digital radiography and the part advanced digital applications will play
**1000–1130** Characterisation of focal liver lesions: A practical approach  

**Moderator:** Dr Simon Olliff  
**Aim:** To provide a refresher course that emphasises the roles of different imaging modalities in the characterisation of focal liver lesions and to review the use of liver-specific contrast media in this context  
**Outcomes:**  
1. To understand the strengths and weaknesses of the different imaging modalities when characterising a focal liver lesion  
2. To be confident in defining protocols on CT and MRI for liver lesion characterisation  
3. To be familiar with the use of liver-specific contrast media  

1030 The role of US, Dr Edward Leen, Hammersmith Hospital, London  
1050 Focal lesions in patients with cirrhosis, Dr Ashley Guthrie, St James’ University Hospital, Leeds  
1110 Incidental liver lesions: CT vs MRI vs PET? Dr Simon Olliff, Queen Elizabeth Hospital, Birmingham

**1000–1215** Make ‘IT’ work – the requirements for a successful MDT meeting  

**Moderator:** Dr Laurence Sutton  
**Aim:** To appreciate the multiple factors, both technological and organisational, required to ensure optimum outcome from a multidisciplinary team meeting  
**Outcomes:**  
1. To understand the required IT infrastructure and management  
2. To understand the workflow processes  
3. To understand the clinician’s requirements  
4. To appreciate how solutions are applied to healthcare communities  

1000 The radiologists’ IT needs for MDTM teleconferencing: Pitfalls to avoid, Dr Nicola Strickland, Imperial College Healthcare NHS Trust  
1020 The clinicians’ IT needs for a successful MDTM teleconference, Speaker TBC  
1040 The histopathologists’ IT needs for a successful MDTM teleconference, Dr Robert Goldin, Imperial College Healthcare NHS Trust  
1100 Resolving our MDT needs: We did it our way – Part 1, Dr Rhidian Bramley, Christie Hospital NHS Trust, Manchester  
1120 Resolving our MDT Needs: We did it our way – Part 2, Dr Tina Young, Bart’s and The London NHS Trust, London  
1140 Networking and IT solutions necessary for a successful MDTM teleconference, Mr Ross Magri, Sarner Limited

**1015–1045** Cardiac CT using sure prospective helical technique and variable helical pitch  

**Toshiba Medical Systems**  
**Aim:** Inform about latest CT capability with dose reduction focus  
**Outcomes:**  
1. Educate delegates on the advantages of latest technology  
2. Increase awareness of safety with respect to reduced radiation doses in CT

**1030–1215** Victims of modern imaging: A common sense approach to incidental findings from head to toe  

**Moderator:** Dr Gary Cook & Professor Rodney Reznek  
**Aim:** To review several of the most common incidental findings on imaging and to present methods for further characterisation or follow-up  
**Outcomes:**  
1. To be familiar with the range of common incidental findings and to emphasise the ‘normal’ findings increasingly identified on high quality imaging  
2. To know how to characterise incidental lesions on imaging and to provide strategies to direct further management  
3. To be aware of the role and indications for biopsy when non-invasive imaging remains equivocal  

1030 Normal variants and incidental findings in the CNS, Dr Gerardine Quaghebeur, John Radcliffe Hospital, Oxford  
1050 Not another solitary pulmonary nodule! Dr Sujal Desai, King’s College Hospital, London  
1110 Incidental adrenal adenomas: Characterisation with confidence, Professor Rodney Reznek, St Bartholomew’s Hospital, London  
1130 Is it a renal cell cancer? Professor Stuart Silverman, Harvard Medical School, USA  
1150 Incidental lesions in the bone: Benign or biopsy? Dr Rob Campbell, Royal Liverpool University Hospital, Liverpool

**1045–1115** MRI angiography using the gadolinium-free technique  

**Toshiba Medical Systems**  
**Aim:** To inform about latest MRI capability with improved safety awareness  
**Outcomes:**  
1. Educate delegates on the advantages of latest technology  
2. Increase awareness of safety with respect to reduced gadolinium usage in MRI

**1045–1215** Neonatal imaging  

**Moderator:** Dr John Somers, Nottingham University Hospital  
**Aim:** The unique conditions and imaging requirements of neonates will be highlighted  
**Outcomes:**  
1. The audience will understand the importance of high quality imaging  
2. Participants will have a clear understanding of the disease processes unique to the neonate  
3. The strengths and limitations of cross sectional imaging of the neonatal brain will be understood  

1045 The neonatal chest, Dr Louise Sweeney, Royal Hospital, Belfast  
1115 Abdominal imaging, Dr Fiona Dickinson, Leicester  
1145 Imaging the neonatal brain, Professor Paul Griffiths, Sheffield
### 1045–1215 Keynote and scientific session: Breast II

**Moderator:** Dr Erika Denton  
**Title:** TBC, Dr Barbara Doll, RCR Professor of Breast Imaging  
**1115** Proffered papers  

### 1045–1215 Advanced imaging in cancer

**Moderator:** Dr Giles Roditi  
**Aim:** To explore the latest development in clinical imaging technology as applied to cancer  
**Outcomes:** 
1. Detection and diagnosis of cancer  
2. Improved treatment planning in cancer  
3. Early prediction of treatment response in cancer  

**1045 MRI biomarkers of early treatment response in cancer,** Professor Kevin Brindle, University of Cambridge, Cambridge  
**1115 Advanced imaging in radiotherapy treatment planning,** Professor Andrew Beavis, Princess Royal Hospital, Hull  
**1135 Optical techniques in cancer diagnosis,** Dr Nick Stone, Gloucestershire Hospitals NHS Foundation Trust  
**1155 Dynamic contrast-enhanced MRI in cancer,** Professor Fiona Gilbert, University of Aberdeen, Aberdeen

### 1115–1215 Imaging on the move

**FUJIFILM UK Ltd**  
**Aim:** To highlight the advances in digital imaging outside of the X-ray department  
**Outcomes:** 
1. An understanding of developments in mobile digital imaging systems  
2. Wireless connection to PACS/RIS  
3. Availability of flexible solutions

### 1100–1215 Student scientific session

**1100** Proffered papers submitted by students

### 1245–1330 COR William Strip Memorial Lecture

**1245** Osteogenesis Imperfecta – past, present and future, Mrs Donna Dimond, Bristol Royal Hospital for Children, Bristol

### 1400–1630 Paediatric surgical emergencies and scientific session

**Moderators:** Katharine Halliday & Louise Sweeney  
**Aim:** To discuss the roles and scope of various imaging modalities in paediatric surgical conditions  
**Outcomes:** 
1. Participants will have a clear concept of which conditions require urgent imaging and management  
2. Participants will understand the vital role of ultrasound in this age group  
3. The role of the generalist versus the specialist paediatric radiologist will have been considered  

**1400 Neurosurgical emergencies,** Neil Stoodley, Frenchay Hospital, Bristol  
**1430 Urological emergencies,** Alex Barnacle, GOS  
**1500 Abdominal emergencies,** John Somers, Nottingham City Hospitals  
**1530 Proffered papers**

### 1415–1600 GI keynote and scientific session

**Moderator:** Stuart Taylor  
**Aim:** To describe the state-of-the-art imaging techniques in small bowel imaging  
**Outcomes:** 
1. To be familiar with the best techniques for imaging small bowel pathology  
2. Recognise the appearances of small bowel masses and inflammatory change on MDCT  
3. To be familiar with new developments in small bowel MR  

**1415 State-of-the-art small bowel imaging,** Stuart Taylor, University College Hospital, London  
**1445 Proffered papers**
1430–1700 Oncology imaging: An interactive session with a focus on PET

Moderator: Dr Gary Cook & Professor Rodney Reznek

Aim: To discuss the use of PET and PET/CT in the evaluation of malignancy and to illustrate the imaging appearances and pitfalls using an interactive approach

Outcomes: 1. To understand the indications for PET/CT in the common malignancies and to be aware of the role of PET in relation to other imaging modalities
2. To understand how the results of PET imaging can influence management
3. To be able to recognise the appearances of PET-avid tumours and to spot the typical pitfalls

1430 PET/CT in lymphoma, Dr Ciaran Johnston, Barts and the London Hospital, London
1500 PET/CT in oesophageal cancer, Dr Kevin Bradley, Oxford Radcliffe Infirmary
1530 Tea break
1600 PET/CT in lung cancer, Dr Conor Collins, St Vincents Hospital, Dublin
1630 PET/CT in colorectal cancer, Dr Gary Cook, Royal Marsden Hospital, Surrey

1430–1600 Academic radiology in the UK – does it have a future?

Moderator: Professor Paul Griffiths

Aim: Academic radiology has no future in the UK: A debate

1430 Support of the motion, Dr Andoni Toms, Norfolk and Norwich University Hospital, Norwich
1450 In defence, Professor Adrian Dixon, Addenbrookes Hospital
1510 Open questions

1430–1630 Military radiography

Aim: To give an update of the current work undertaken by military radiographers and radiologists and to show how the military are meeting the challenges of a role that is somewhat different to that experienced in hospitals back in the UK

Outcomes: 1. To give a better understanding of the type of work that military radiographers are expected to deal with whilst deployed on operations
2. To demonstrate how a training programme has been developed to meet the requirement for UK-trained radiographers to be able to cope with the types of trauma and working conditions experienced whilst deployed on operations
3. To show how mobile direct-digital radiography has been developed in order to improve clinical outcomes in the field
4. To briefly outline how the British military radiologists have provided clinical support during current conflicts and to demonstrate the plain film and computed tomographic appearances of cases of gunshot wound and bomb blast injury

1430 Military radiography in the field, Flight Sergeant Lynne Carrothers
1500 From NHS hospital to Army tent – the training challenge, Warrant Officer Iain Appleton
1530 Enter the dragon, Chief Petty Officer Steve Andrews
1600 Bullet and blast – a military radiology perspective, Lieutenant Colonel Iain Gibb, Consultant Advisor (Army)

1430–1530 Service delivery scientific session

Moderator: Professor Andy Beavis

1430 Proffered papers

1430–1600 Junior Radiologists’ Forum

Moderator: Daniel Bell

Aim: Provide senior radiology trainees with advice about the transition from registrar to consultant

1430 The consultant contract: Everything the newly-qualified consultant needs to know, Dr Jonathan Ellis, Milton Keynes General Hospital
1500 Preparing for consultant interview, Dr Gareth Davies, Royal Glamorgan Hospital
1530 Overseas fellowships, Dr Darren Gibson, Australia

1600–1700 IT for healthcare: Where next?

Moderator: Dr John Somers

Aim: An update on Connecting for Health IT solutions and the equivalent across the UK

Outcomes: 1. Understand where CFF IT solutions are now
2. Gain knowledge of IT infrastructure across the UK and the implications for imaging services
3. Connecting for Health – where are we now? Dr Simon Eccles, Connecting for Health
1630 The Scottish IT solution, Dr Andrew Downie, Victoria Infirmary
1650 The Welsh and Irish IT solutions, Dr Andrew Ward, Welsh Health Estates

1600–1700 Advances scientific session

Moderator: Professor Andy Beavis

Aim: 10 minute presentations of proffered papers (submitted abstracts)
Venue
We are delighted to be returning to Manchester this year. The G-Mex and MICC have merged and are now known as Manchester Central. The venue ideally suits our joint Conference and Exhibition and helps to create a welcoming feel for the congress.

Travel
With an excellent range of transport options to get to the city and a superb transport network on arrival, a trip to UKRC could not be easier. NB: All journey times are approximate.

By Plane
You can fly to Manchester in one to two hours from most British airports. Flights can be booked in advance at a low cost, making your journey to UKRC quick and hassle-free. Direct flights depart from:

South West Scotland  Bristol
Aberdeen   Plymouth  Inverness
Edinburgh   South East  The Channel Islands
Kent    Northern Ireland  Guernsey
Isle of Man   Londonderry  Belfast
London (Gatwick, City & Heathrow)

By Train
You can get from London to Manchester in under two hours. With extensive train links from the whole of the UK through to the city’s two main stations (Manchester Piccadilly and Manchester Victoria), Manchester couldn’t be easier to get to.

- One hour away from Liverpool, Leeds, Sheffield and Chester
- Two hours away from Birmingham, Hull, York, Nottingham and London
- Three hours away from Cardiff, Newcastle and Bristol
- Four hours away from Edinburgh and Glasgow

For timetable enquiries and reservations, book online or by telephone:

Travel Website  Telephone Number
www.nationalrail.co.uk  +44 (0)845 748 4950
www.virgintrains.co.uk  +44 (0)845 722 2333
www.thetrainline.co.uk

By Road
Manchester is surrounded by an extensive motorway system that links to the whole country – in fact half of Britain’s motorway network passes through Manchester, allowing easy road access for delegates from all over the country. The M6 Toll Road has eased congestion on the busiest stretch of motorway and has reduced the overall journey time from London to Manchester.

- One hour away from Bradford, Derby and Wolverhampton
- Two hours away from York, Coventry and Leicester
- Three hours away from Swansea, Cambridge, Salisbury and London
- Four hours away from Swindon, Southampton and Maidstone

Accommodation
This year, Zibrant is the official hotel booking agent for UKRC, offering attractive discount rates at a range of hotels. For a full list of hotels and information on how to book, please visit the UKRC website (www.ukrc.org.uk) or contact Zibrant directly on Tel: +44 (0)1332 285 594, Fax: +44 (0)1332 285 537 or Email: ukrcaccommodation@zibrant.co.uk.

Restaurants
With a huge variety of restaurants catering for a range of tastes, deciding where to eat could be a problem! UKRC has once again secured discounts at some of the city’s best restaurants on production of your delegate badge for all three days of the congress.*

Participating restaurants are:

- **Choice Bar and Restaurant**
  Castle Quay, Castlefield, Manchester, M15 4NT
  www.choicebarandrestaurant.co.uk
  Complimentary bottle of house wine per pre-booked table

- **Dimitri’s Restaurant**
  Campfield Arcade, Tonman Street, Deansgate, Castlefield, Manchester M3 4FN
  www.dimitris.co.uk
  One free drink (glass of wine, glass/bottle of beer or soft drink)

- **Tampopo**
  16 Albert Square, Manchester, M2 4DE
  www.tampopo.co.uk
  20% discount from total bill

- **Tiger Tiger**
  Printworks, 27 Withy Grove, City Centre, Manchester, M4 2BS
  www.tigertiger-manch.co.uk
  50% discount from food bill and free entry to club night at Tiger Tiger (if open).
  Guests must book in advance and quote “UKRC”

*Terms and conditions apply
Social Events & Booking Information

Social Events

Nightclub
Venue: Revolution Manchester
Website: www.revolution-bars.co.uk
Date: Monday 8 June 2009
Time: 21.00-late
Price: £8 in advance, £9 on the door
Come and have fun whilst networking with your colleagues! UKRC’s nightclub event takes place in one of Manchester’s most central venues, with exclusive use of the club, a DJ and a dance floor!

Congress Gala Dinner
Venue: Hilton Manchester Deansgate
Website: www.hilton.com
Date: Tuesday 9 June 2009
This year’s Gala Dinner is going to be bigger and better than ever and is not to be missed! Join us for an evening of fusion: visit www.ukrc.org.uk for full details.

Fees and Booking Information

Register online at www.ukrc.org.uk

HOW TO BOOK
1. Online at www.ukrc.org.uk
- all payment methods are available using this option.
2. Post – complete both sides of the form indicating days attending and fee and return with remittance to the address below:
   UKRC Conference Registrations
   c/o Zibrant, 2 Prospect Place, Pride Park, Derby DE24 8HG, UK
   Tel: +44 (0)1332 285 594 Fax: +44 (0)1332 287 612
   Email: ukrc@zibrant.co.uk
3. Fax – complete both sides of the form indicating days attending and fee and fax to +44 (0)1332 287 612.
4. Onsite at UKRC – please note that payment in full will be required onsite at time of registration, otherwise there will be no admittance to the conference. For opening times see below.

Payment
Please see the form overleaf for all accepted methods of payment. If full payment has not been received by 29 May 2009 we will be unable to admit you to the conference unless you bring full payment with you.

Conference Registration Opening Times
Sunday 7 June: 1700-1900
Monday 8 June: 0815-1800
Tuesday 9 June: 0815-1800
Wednesday 10 June: 0815-1800
A receipt and certificate of attendance will only be issued once full payment has been received.

Early Registration Rate
To qualify for the early registration rates, online applications or registration forms must be received by close of business on 15 April 2009.

Group Booking Discount
If there are five or more delegates attending from the same department, a discount of 10% on registration fees will be applicable.

Cancellations
If you cancel your registration, a refund of the registration fee and social event tickets will be made, less 15% for administration costs, provided written confirmation of cancellation is received by UKRC Registrations before 4 May 2009. Thereafter, no refunds can be made.

DELEGATE FEE CATEGORIES
A Consultant radiologists, consultant oncologists and radiotherapists, consultant physicists and equivalent senior scientists and senior managers
B Other medical and scientific staff, including trainees
C Radiographers, nurses, teachers, junior physicists and radiobiologists
D Undergraduates and individuals on bursaries and scholarships (a letter of authorisation is required) and those in retirement (early rate does not apply)

Fees include access to all conference sessions on the days registered, plus unlimited access to the exhibition.

Please tick to indicate which days you will be attending:
Monday 8 June 2009
Tuesday 9 June 2009
Wednesday 10 June 2009

Please tick to indicate the category and fee of your booking:

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* for category descriptions please see above
** early registration deadline is 15 April 2009
UKRC 2009 CONFERENCE REGISTRATION FORM

Please complete a separate form for each delegate – photocopies are acceptable. Please complete in black ink and BLOCK CAPITALS, or attach a business card.

DELEGATE DETAILS

*Title:  *Forename:  *Surname:

*Hospital/organisation name: (max 30 characters)

(* this information will be used on your badge and the delegate list)

*Address:

Town:  Postcode:  Country:

(* this address is where your badge (pre-event) will be sent)

Daytime Tel:  Ext:  Fax:

*Email:  Signature:

(*please include an email address to receive a receipt of your payment and your CPD certificate)

If you would like to receive a CPD certificate, please tick this box: ☐

Registration Category (see overleaf): A ☐ B ☐ C ☐ D ☐

PAYMENT OPTIONS

IMPORTANT NOTE ON PAYMENT VIA INVOICE

Your official order number is required to enable this payment option to be processed. UKRC is not able to invoice after 22 May 2009. If full payment has not been received by 29 May 2009 we will be unable to admit you into the conference unless you bring full payment with you.

IMPORTANT NOTE ON PAYMENT VIA CREDIT/DEBIT CARD

If paying by VISA/MASTERCARD/switch a bank handling fee of 3.6% will be added to the total payable. ‘In Business Reservations T/A UKRC’ will appear against this debit on your statement.

a) Credit/Debit Card*

Please debit my VISA/MASTERCARD/switch/AMEX (delete as appropriate) for the sum of £

(together with a 3.6% bank handling fee)

Cardholder’s name:

Cardholder’s address:

b) Cheque

I enclose a cheque made payable to ‘UKRC’ for £

c) Invoice

Official purchase order number:  Date:  /  /

Name of the health authority/trust/organisation:

Contact name to whom invoice must be sent:

Invoice address:

Tel:  Fax:

Keeping in Touch

From time to time we may like to contact you by post with further information on UKRC.

If you do not wish to receive this please tick this box ☐

From time to time we may like to contact you by email with further information on UKRC.

If you wish to receive this please tick this box ☐

We may also periodically pass on your details to other organisations who may wish to send you relevant information and offers. If you wish to receive this please tick this box ☐

Register online @ www.ukrc.org.uk

PROFESSION

(Please tick only one box)

☐ Consultant Radiologist p1

☐ Consultant Physician/ Surgeon/Paediatrician etc p2

☐ Trainee Radiologist p3

☐ Trainee Physician/Surgeon/ Paediatrician etc p4

☐ Radiography/Service Manager p6

☐ Radiographer p7

☐ Trainee Radiographer p8

☐ Physicist p9

☐ Trainee Physicist p10

☐ IT Manager p11

☐ Other p12

MEMBERSHIP

(Please tick all those which apply)

☐ BIR  ☐ COR

☐ IPEM  ☐ RCR

☐ Other

For Office Use Only

Date processed

Amount received

Registration no.

A B C D E F G H  When registering online please type last letter of this set