

British Medical Ultrasound Society News

Promoting ultrasound for healthcare professionals

August 2012

In this issue

News & views
education, AQP



Ultrasound 2012

Personalised itineraries.
BOOK NOW!



On your marks...

Ultrasound at the biggest sports events of the summer



President's Column

Colin Deane



When last we spoke, BMUS was looking for a new home following the BIR's decision to relinquish their lease on 36 Portland Place, which had been the BMUS office since we started out.

I'm delighted to be able to say that Joy and her team are now installed in our new premises, just 3 doors down in 28 Portland Place. The physical move is almost complete and, much harder apparently, the IT and telephone connections have finally been sorted out so after a brief hiatus the BMUS office is functioning fully once again. Many thanks to all involved.

For many reasons - not just the BMUS office move, not even the weather - the year 2012 will be a memorable one. Some of you will have been involved with the Olympics and Paralympics, others will be sitting over a morning croissant watching synchronized swimmers emerge from the water gleaming and synchronized.

As you will see from the newsletter, Borsha Sarker is offering her ultrasound skills pro bono in the Olympic Village, scanning superbly fit bodies for the many and various ailments that seem to afflict top athletes, which should at least provide some good images for her teaching.



For others, the mundane preoccupation will be changing services as reorganisation of the health service moves on. One of the themes this year is the increase in alternative provisions of diagnostic services.

Any Qualified Provider is now being implemented nationwide and many members will be directly or indirectly involved. **See page 6 for more info.**

The consequences of competition in ultrasound services may be profound. While some will embrace the chance to offer innovative provision of services to suit commissioners, others will wonder how their own service will be affected. Concern over future activity levels, staff retention and the ability of the tariffs to accommodate training and changes in practice make this an uncertain time. For some this is against the backdrop of funding pressures.

We are inviting members to contribute to an on-line survey and will bring the results of this to a session at the ASM where issues will be deliberated.

Other preparations for the Annual Scientific Meeting are well advanced. One new innovation is the idea of specialism streams to help delegates pick their way through sessions to make maximum use of their time. Council realise that time and money are less abundant than in previous years so the days are planned to be as productive as possible. One clear advantage of Telford is that the lecture rooms, practical rooms and exhibition hall are close together - it's purpose built for these events and it will feel much more intimate and easy to navigate. Another large advantage is the easy access by road and free car parking. A further benefit for some of us is the bar integral to the exhibition hall.

For the first time we are including a hands-on session with lectures provided in advance as audio described PowerPoint presentations, in this case for DVT scanning. This means that the time at the conference is spent on practical training with the machines, experts and subjects to hand. We hope that this is the precursor to further educational topics organised this way. This also supports initiatives such as the e-learning being rolled out by the Department of Health for ultrasound as outlined in this newsletter. There is a wealth of material of variable quality out there, but integrating high quality lectures that can be accessed at will with practical skills allows for dialogue and interaction and leads to better learning.

Try it at Telford and see how it works.

A few words from the Treasurer, Roger Moshy

The rain continues outside - whither goes the summer and equally whither goes BMUS finances?

Once again it is time to review our annual membership fees. Ideally Council would like to freeze them for a while but sadly the finance audit committee was of the opinion that course of action would not be wise. Council was finally persuaded that a modest yearly rise equal to the rate of inflation would be appropriate.

Reluctantly therefore council has approved a small rise this year. I hope our members will understand that the society must keep solvent. The finance audit committee needs an accountant to join us – can you help? If yes please contact Joy Whyte joy@bmus.org at BMUS who will explain what is involved.

The Olympics are upon us – some hate the thought whilst others are excited or are even participating in one way or other to make them a success. That's what we need continually from all our members - participation so that we can make our own Ultrasound 2012 a resounding success in Telford.

Please join us there in December.

The impetus for creation of common safety statements is coming from the WFUMB (World Federation for Ultrasound in Medicine & Biology) safety committee.

This committee, comprised of representatives from around the world, has been reviewing existing national safety statements. The first statement to receive overarching international approval is a "Statement on the Safe Use of Doppler Ultrasound During 11-14 week scans (or earlier in pregnancy)". This statement has been endorsed by WFUMB, EFSUMB, AFSUMB (Asian Federation of Societies for Ultrasound in Medicine & Biology), AIUM, BMUS, JSUMB (Japanese Society for ultrasound in Medicine & Biology) and ISUOG (International Society for Ultrasound in Obstetrics & Gynaecology), and is reproduced **opposite**.

Consensus is now being sought on the wording of common statements covering souvenir scanning, (other) non-medical uses of ultrasound, and a general clinical safety statement. WFUMB safety committee is optimistic that agreement will be reached. The UK is having considerable input into these statements, and it is intended that wherever possible the common statements will replace or supplement BMUS' own statements.

International agreement on recommendations for the safe use of Doppler examinations in the first trimester

Gail ter Haar,
BMUS Safety Committee Chair
reports

Most of professional medical ultrasound societies have their own safety committees. Historically, each of these committees has published its own statements and guidelines on aspects of the safety of diagnostic ultrasound. Since most of these statements carry the same message, there is now an international effort to generate common statements and guidelines in order to strengthen the message to ultrasound users.

The BMUS "Guidelines for the safe use of diagnostic ultrasound equipment"

(<http://www.bmus.org/policies-guides/BMUS-Safety-Guidelines-2009-revision-FINAL-Nov-2009.pdf>) have been adopted by EFSUMB (European Federation of Societies for Ultrasound in Medicine & Biology) and the obstetric guidelines contained in the document have been adopted by AIUM (American Institute of Ultrasound in Medicine), who are currently also looking at the other applications with a view to their approval as well.

This is a considerable feather in the caps of BMUS and its safety committee as a significant amount of effort was put into developing these guidelines.



Statement on the Safe Use of Doppler Ultrasound During 11-14 week scans (or earlier in pregnancy) – accepted by WFUMB, EFSUMB, AFSUMB, AIUM, BMUS, JSUMB, ISUOG

1. Pulsed Doppler (spectral, power and colour flow imaging) ultrasound should not be used routinely.
2. Pulsed Doppler ultrasound may be used for clinical indications such as to refine risks for trisomies.
3. When performing Doppler ultrasound, the displayed Thermal Index (TI) should be less than or equal to 1.0 and exposure time should be kept as short as possible (usually no longer than 5-10 minutes) and not exceed 60 minutes.
4. When using Doppler ultrasound for research, teaching and training purposes, the displayed TI should be less than or equal to 1.0 and exposure time should be kept as short as possible (usually no longer than 5-10 minutes) and not exceed 60 minutes. Informed consent should be obtained.
5. In educational settings, discussion of first trimester pulsed or color Doppler should be accompanied by information on safety and bioeffects (e.g. TI, exposure times, and how to reduce the output power).
6. When scanning maternal uterine arteries in the first trimester, there are unlikely to be any fetal safety implications as long as the embryo/fetus lies outside the Doppler ultrasound beam.

Olympic

Fever

One of our soon-to-retire Council members was selected as a London 2012 Volunteer.

Borsha Sarker is soon to step down from Council and the Scientific and Education Committee after her two elected terms of office. However, BMUS won't be losing her just yet as she will become the Chair of the Scientific Organising Committee for the 2013 ASM. Here is her London 2012 experience so far.



When I first saw the call for volunteers for London 2012, I was surprised because I thought MSK experience would be mandatory. The Polyclinic however, provides a full range of care to all of the Olympic family, not just the athletes. The recruiting advert called only for skills in general abdominal and gynaec ultrasound. I hoped my additional vascular skills (especially DVT scanning after all those long haul flights!) might come in useful and help get me selected.

The interview process for me was a chat over the phone, the hardest question being the first - what is your favourite Olympic sport? I had expected to be grilled about my ultrasound experience! I had to be available for the whole two weeks of the Olympics, plus the training days prior to the event. This includes LOCOG orientation, role and venue specific training. I'm taking unpaid and lieu leave from work and lucky to be staying with family in London which reduces costs considerably.

The games are now only a few days away and I'm looking forward to setting off to the Olympic Village in my scarlet and grape volunteer uniform (was it designed after the wild poppy petal?), collected with military precision in a one hour long production line including fitting, LOCOG photo ID, satchel, water bottle, watch, umbrella and complimentary Oyster Card!

I don't have any tickets, but was lucky to get a place at one of the opening ceremony technical rehearsals. I might be able to join friends at the beach volleyball if my shifts allow.

I hope to make new friends, have fun, learn lots, give something back, have a break from my usual workplace and bring back some new skills, much like any good sabbatical.

As LOCOG value diversity I'm off to dye my hair its customary shade of lime green!

DVT Integrated Training day

If I don't see you at London 2012, then next stop is Telford 2012 at the new look DVT Integrated Training day – the Easy Guide to DVT Scanning.

For all those who have bombarded BMUS and me with queries about when the next DVT study day will be – **this is IT!** Arms and Legs! Just in time for the new NICE Guidance. Book early for the places are strictly limited.

Register now on the Telford 2012 website using this link <http://www.bmus.org/conference-events/ce-home.asp>
Programme details can be found on page 19.



IMPORTANT: Please note this is an advance registration event and will not be open as a workshop during the ASM to delegates unless pre-registered separately. *This is different to previous years.*

Take advantage of the advance e-learning package developed specially for this BMUS ASM, the brainchild of S&E Chair Simon Freeman.

We've listened to you.

All the lectures will be provided in advance for you to listen to, plus a detailed learning package worth 12 CPD credits. There's lots of supporting literature and links for you to explore plus 3 hours intensive practical on Day 1 of the ASM and then a complimentary afternoon to sample the delights of Telford 2012. Attend any session of your choice or the superb technical exhibition to check out all the latest equipment, network or meet old friends and take advantage of the onsite bar.

Remember, as mentioned in the newsletter before, if you attend the DVT day and want to hold a similar event locally for your Trust, regional user group, local university course or for BMUS, you will be able to use this training package and template as a BMUS member and be rewarded with complimentary places at a future ASM.

Contact Rachel Meir for details of this great offer at rachel@bmus.org or 0207 636 3714

UK wins the Young Investigator Award in Spain

This years Euroson was over a long weekend in April, in the Spanish city of Madrid. I entered the Young Investigator Session thanks to a nomination from BMUS.

This session had a wide variety of talks ranging from new targeted microbubbles for prostatic imaging to novel elastography techniques for carotid atheroma. It was unique in that young physicists, radiologists and physicians were all talking in one session about recent advances in ultrasound science. We had nine minutes to present our work followed by three (nerve racking!) minutes for questions on the scientific basis of our work. It was a real privilege to meet other young investigators, who are taking and shaping ultrasound into tools for patient benefit tomorrow.

I was absolutely thrilled to find out later that afternoon that I had won (€1000 prize money) and after a celebratory drink we headed off to the gala Flamenco dinner in town. I would like to thank BMUS for this once in a lifetime opportunity and if you are thinking of entering next year, do it!

See page 9 for information on how to take part in this years Young Investigator Award



Ankur Thapar receiving his award from EFSUMB President, Dr Fabio Piscaglia

Honorary Membership

Carmel M Moran
BMUS Honorary Secretary

BMUS honorary membership is awarded to those members who are considered by BMUS to have contributed in a sustained and substantial manner to the development and practice of ultrasound in medicine and biology.

Our current honorary members include:

Dr Paul Allan, Mr Tom Brown, Professor Stuart Campbell, Professor David Cosgrove, Professor Frances Duck, Professor David Evans, Dr Tony Evans, Mr John Fleming (*see John's article on historical collection opposite*) Professor Raymond Gosling, Professor Christopher Hill, Professor Norman McDicken, Dr Hylton Meire, Dr David Pilling, Professor Gail ter Haar, Prof Peter Wells, Dr Tony Whittingham.

BMUS currently has 16 honorary members with a potential maximum of 24 as stated in the articles of the association-

www.bmus.org/about-bmus/articles12.pdf

The privileges of honorary membership include:

- Free registration to the Annual Scientific Meeting
- Free copies of journal Ultrasound
- Full access to the Member's area of the BMUS web-site
- Attendance at the organised study days of the BMUS at a reduced rate of 50% of the normal member fee.

So if you are aware of a BMUS member who has contributed in a sustained and substantial manner to the development and practice of ultrasound in medicine and biology, please put their name forward.

All that is required is a 250 word summary of the work and contributions of the nominee which will be considered for approval by the Officers and Council members of BMUS.

Deadline for receipt of applications is **5 October 2012** for announcement at AGM.

BMUS Historical Collection

John E E Fleming reports

I set up the Collection in 1984 as part of the Society's educational programme and as a resource for research. It includes hardware, documents, books and visual material. After 18 years, I was very pleased to hand over to Chris Haydon and am very grateful to him for all his hard work. Chris has now retired and I am acting as a temporary caretaker.

Initially many scanners etc were collected and for some years stored in the Hunterian Museum; then in 2006 transferred to commercial storage in Glasgow. Subsequently duplicates, and less important items, were discarded; objects of particular relevance to Glasgow were transferred to Glasgow Museums.

The 'Glasgow' items are the manual, static scanners designed by Tom Brown and colleagues i.e. Bed-table Scanner, Automatic Scanner, Disonograph (aka NE4101) and Sonicaid Multiplanar(3D) machine. These, apart from the Bed-table Scanner, are in Glasgow Museums Resource Centre (GMRC) and can be viewed by prior arrangement. The Bed-table Scanner, which is the kernel of the Collection, is on long-term loan for public display in the Hunterian Museum. It is significant because it produced the B□-Scan images in the 1958 *Lancet* paper by Donald, MacVicar and Brown - an event commemorated by the eponymous annual Lecture.



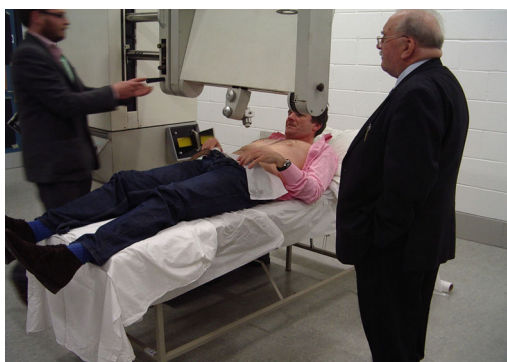
John Fleming among the BMUS Historical Collection, Hunterian Museum

Historical collection contd.

In the commercial store are A-scan industrial flaw detectors - one such instrument formed the basis of the Bed-table Scanner, Siemens Vidoson (1st real-time scanner c 1965), EMI 4500 phased array (c1980), Doppler instruments, Physionic articulated arm scanner, eggs of early real-time systems and transducers including a Diagnostic Sonar System 85 plus other items including therapeutic instruments.

Diasonograph & BBC ONE Show -

Delegates to BMUS 2001 in Edinburgh will recall seeing the Diasonograph, and the Vidoson, being demonstrated by Hylton Meire and Joe Joseph. So last September when the BBC asked for help to make a short film for the ONE Show about the development of medical ultrasound it seemed obvious to include the Diasonograph. I checked that it was working properly. All seemed OK - but on filming day, 2 minutes before Tom Brown was to scan the presenter, Dr Mark Porter, I looked at the screens, both just showed big bright blobs



Tom Brown and Dr Mark Porter

in the centre! There was no quick fix so the non-functioning scanner was demonstrated. Disappointingly this part of the programme was not shown.

Later Helen Watkins, Human History Research Manager, asked if I could get it working, of course I said 'Yes'. But after more than a week working at GMRC, and at home, I had found that the two crt units had failed in exactly the same way and numerous other components had been damaged - presumably caused by a large surge on the mains supply. We did get it functioning but the images were very poor. However, the museum staff recorded film of a 'patient' being scanned and of an interview in which I spoke about the various scanners now in their care.

Documents - are held in the NHS Archive, Mitchell Library, Glasgow, and include correspondence, reports, obituaries, manufacturers' documents, both technical and commercial. In total this occupies 37m of shelf space and has been expertly indexed by Alistair Tough. Since 2008 there have been three enquiries per year and four in the first half of 2012.

The HumanRace: Inside the Story of Sports Medicine - this touring exhibition, curated by Royal College of Surgeons of Edinburgh, is visiting 9 Scottish venues and the RSM, London. On display are items from Scottish medical and sporting collections, new artworks and rare film footage highlighting intriguing and surprising advances in 200 years of sports medicine; BMUS has loaned a 1957 Siemens *Sonostat* Therapeutic Ultrasound Generator.

Scottish National Portrait Gallery, Edinburgh -the *Pioneers of Science* includes: 'Ian Donald ... who led a team of clinicians and engineers who established obstetric visualisation ...' and shows film of the Automatic Scanner in use; courtesy BMUS.

Books - over 300 volumes, mostly from the estate of the late Dr Pat Morley, are stored in the Centre for the History of Medicine, Glasgow University and available for reference on request to Malcolm Nicolson, Professor of the History of Medicine.

Perhaps one of my last tasks will be, in 2013, to add one more book - *Imaging and Imagining the Fetus: The Development of Obstetric Ultrasound* that Malcolm and I have just completed Publ: John Hopkins University Press.

This is the outcome of many years collaboration with Malcolm, who saw more

clearly than I did the possibilities inherent in the Collection.

The full article and more images will soon be available on the BMUS website

¹ www.glasgowlife.org.uk/museums/our-museums/glasgow-museum-resource-centre/Pages/default.aspx

² <http://www.gla.ac.uk/hunterian/collections/permanentdisplays/ahealingpassion/#d.en.199544>

³ Alistair Tough GGHB Archivist

T: 0141 330 2992

E: Alistair.Tough@glasgow.ac.uk

To access index: archives.gla.ac.uk/gghb/collects/hb112.html

⁴ www.nationalgalleries.org/visit/298/

⁵ www.gla.ac.uk/schools/socialpolitical/staff/malcolmnicolson/ T:0141 330 6070

E: Malcolm.Nicolson@glasgow.ac.uk



1957 Siemens Sonostat Therapeutic Ultrasound Generator

We're in!

We are surrounded by crate towers as I type this.

And covered in fetching crate shaped bruises, which is unfortunate just as summer kicks in. But the good news is that we are in our new home and ship-shape following our move on July 19th.

As Colin said, we were fortunate that Joy found digs that enabled us to stay 'local' - near to Regent's Park and perilously close to the shops on Oxford Street.

28 Portland Place is also home to the Royal Society of Public Health, the Stillbirth and Neonatal Death Society (SANDS,) the Galapagos Conservation Trust and the Association for Nutrition.

In the spirit of working more closely together, we are sharing our office space with our European colleagues, EFSUMB, and look forward to seeing more of their General Secretary Lynne Rudd in person, rather than just the occasional water cooler chat.

Our phone and fax number remain the same, which is very handy. What is not so great is the cupboard full of note-pads with our old address on.... Still, our address is just a number and one little letter in the post-code different, so maybe nobody will notice. Shhhh.



L-R- Heather, Rachel, Colin, Sruthi, Joy

Any Qualified Provider

The ASM session previously earmarked as a CASE session will now be dedicated to the issues around Any Qualified Provider. As early rollout proceeds, it is becoming clear from members that there are concerns about aspects of the process and member needs in terms of support.

Our members have several areas of concern, but the main include:

1. Clarity of the commissioning process
2. Understanding the source of standards and specifications within commissioning
3. The effects on primary training of sonographers and Radiologists
4. Continuing Professional Development
5. Quality Assurance and Audit processes
6. Rigidity of the tariff system
7. Guaranteed volume and compensation for shortfalls in expected numbers
8. Using Choose and Book to deliver AQP

We want to hear from you about your experiences so far.

- Have you been involved?
- Did your service win the bid or lose to another provider?
- Are you in the middle of the process now or is it imminent?
- What extra information would help you prepare for AQP?

New Ultrasound e-Learning Resource Available Now

The College of Radiographers in partnership with DH e-Learning for Healthcare has recently developed *Image Interpretation: Ultrasound*, a high quality educational resource available to all staff in the NHS.

For more information and to register for access, visit:
<http://www.e-lfh.org.uk/projects/imageinterpretation/register.html>

Image Interpretation: Ultrasound comprises approximately 50 educational sessions written by experienced and expert subject specialists including sonographers, radiologists, vascular scientists, midwives, physicists, and emergency medicine consultants.

Module sub-headings include Abdominal, Gynaecological, Men's Health, Vascular, Musculoskeletal and Head and Neck. Photographs, diagrams, still images and clips are used to support and enhance learning. Test questions and activities throughout each session enable learners to check their understanding and meet learning objectives. Tips on scan technique and opportunities to optimise report writing are offered.

In addition to focusing on the interpretation of ultrasound images, these sessions provide useful supplementary information on the value of other imaging modalities and on patient management pathways in common conditions.

Hazel Edwards, Image Interpretation Ultrasound Lead and Module Editor says *"This e-learning resource may be employed by health professionals in a number of ways including; CPD for qualified staff, additional material for students and specialist registrars, a refresher for returning practitioners, and an introduction for staff*

For example, 5% of audited scans can be specified from AQP, but as we know ultrasound is a real time technique and live dual audit is expensive and labour intensive. Hard copy audit does not achieve the same results as in other modalities, due to the operator dependent nature of ultrasound. Both processes of audit are live within the AAA screening program already. Would practical examples of how this has been achieved elsewhere help you?

Following this newsletter we will be sending out a survey to our members to try to establish the current situation and how BMUS can best support both members and commissioners to ensure that the service gained under AQP, provides what the Commissioners require.

We want to hear from you so please-

1. Email your experiences and questions to BMUS. Contact heather@bmus.org
2. Update your email contact with the BMUS office so we can get your views.
3. Respond to our bmus.org survey monkey questionnaire.
4. Register an interest if you would like to talk about your experience at this years ASM in Telford.
5. Join us on Day 3 of the ASM for what promises to be a lively and popular session on one of the most topical issues affecting both NHS and Private ultrasound staff this year.

who may be thinking of extending their practice to include new areas of focused or general ultrasound."

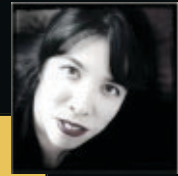
The Image Interpretation content is free of charge to those who work within the NHS and can be accessed in the workplace and at home, 24 hours a day, 7 days a week.

If you are employed by the NHS in the UK you can access the Image Interpretation e-learning via the e-LfH LMS as long as you have an NHS or equivalent e-mail address.

Important note: the Image Interpretation project is known as *'Interpretation of Radiological Images (e-IRI)'* on the e-LfH LMS for cataloguing reasons.



Ultrasound 2012- What's on?



Emma Chung-
Chair of the **BMUS Scientific Organising
Committee, Ultrasound 2012**

Here at BMUS we are very excited about the line-up we have pulled together for **Ultrasound 2012**. I hope you will be as pleased as we are with the array of fine speakers.

As the interests of our members have grown, the logistics of organising the meeting have become increasingly complicated! To aid with deciphering all of the sessions that are on offer we have put together some 'suggested itineraries' with the following threads:

- Sonographer Professional Development
- Obstetrics and Gynaecology
- Radiology / General Ultrasound
- Vascular
- Scientific programme
- Vets.

However, these are only our suggestions - feel free to 'mix and match'.



To view the full outline and read more about our keynote speakers and session topics please take a look at our conference website at www.bmus2012.org

Sonographer professional development - Pam Parker [Scientific Organising Committee]

There are many challenges facing the ultrasound profession at most times and 2012 is no exception.

The advent of new publications and guidelines in addition to the drive for greater efficiency in the NHS is increasing the pressure that most practitioners are working under.

Professional Issues sessions have been planned for the ASM meeting in Telford to give an opportunity for delegates to discuss some of the current challenges faced and to hear how colleagues are dealing with changing practice.

These include interactive debates on a range of service delivery and professional development topics including Any Qualified Provider and training provision.

This year's meeting also features a practical tutorial on independent reporting.

A sample of the professional development sessions planned for Telford is provided opposite.

7 Day Working: Who, When and Why?

The recent publication of the national stroke strategy (2007), the good practice guidelines from the National Imaging Clinical Advisory Group (2012) and the forthcoming venous thromboembolic diseases clinical guidelines (2012) all lead to the development of seven day imaging service in ultrasound.

This session will have presentations regarding the new DVT guidelines, implementation of 7 day working and implications for ultrasound departments. There will be opportunity for discussion and debate from delegates.

This session's key note speakers are Professor Stansby, Newcastle Upon Tyne NHS Foundation Trust, Dr Daniel Boxer, Cons Radiologist from West Hertfordshire NHS Trust and Mrs Pamela Parker, Ultrasound Manager Hull and East Yorkshire Hospitals NHS Trust.

The Changing Ultrasound Career Pathway

Modernising Scientific Careers (MSC) is an ambitious work programme published by the DoH in 2010 which seeks to ensure that the healthcare science workforce is well equipped to meet the challenges and opportunities of the future delivery of care.

In addition, changes to Strategic Health Authorities are affecting funding of post graduate ultrasound education and increasing pressures within Trusts for greater efficiency, increased activity and cost savings, all of which reduce the continuing professional development of ultrasound practitioners.

Sonographer professional development

10 December 2012 - Monday afternoon day 1

- 16:30-17:30** **Seven day working** *(Interactive debate)*
Discussion regarding the merits of a seven day ultrasound service
Who is best to undertake acute imaging and is there a need to change current practice?
- DVT: Who, when, and why? Are we following the NICE guidelines?**
Interactive debate

11 December 2012 - Tuesday day 2

- 11:00-12:30** **Meet the expert** *Limited places!*
Independent ultrasound reporting (*Expert Faculty*)
This tutorial is aimed at Sonographers and Registrars undertaking independent reporting.
There will be presentations and group discussions about reporting and the opportunity to report cases with one of our team of experts
- 12:30-13:30** Lunch
- 15:30-17:30** **The changing ultrasound career pathway– is sonography in danger of being dumbed down?** *(Interactive debate)*

A range of speakers will explore the changes to the scientific career pathways, proposed changes to sonographer education, options available for continued educations, how CPD can be supported for qualified staff and what the role of consultant can bring to the ultrasound profession.
- Guest speakers include *J. Smith, J. Wilson, H. Edwards, O. Byass, T. Robinson and G. Harrison*
- 17:00-18:30** **Poster session and Welcome reception**

12 December 2012 - Wednesday day 3

- 9:00-10:00** **Any Qualified Provider** *(Interactive debate)*
- 10:00-11:00** **Consortium for the Accreditation of Sonographic Education (CASE)**
How to train a specialist?
Guest speakers include *M. Higson, J. Wilson and G. Harrison*
- 12:30-13:30** Lunch / BMUS AGM (*members only*)
- 13:30-14:30** **What makes a good ultrasound image?**
- 15:00-16:00** **Quiz and Closing Ceremony**

On Tuesday afternoon our speakers will explore the changes to the scientific career pathways, proposed changes to sonographer education, options available for continued education, how CPD can be supported for qualified staff and what the role of consultant can bring to the ultrasound profession.

The speakers for these sessions include Teresa Robinson, University Hospitals Bristol, Jean Wilson, University of Leeds, Oliver Byass, Hull and East Yorkshire Hospitals NHS Trust, Jane Smith, Leeds Teaching Hospitals NHS Trust and Hazel Edwards, East and North Hertfordshire NHS Trust.

Meet the Expert - Independent Ultrasound Reporting

This workshop is aimed at sonographers and registrars undertaking independent reporting. The session will provide support for those who are just starting out and revision for those more experienced.

There will be presentations and group discussions about reporting and the opportunity to report cases with one of our team of experts. Our experts for this topic are Dr Oliver Byass, Hull and East Yorkshire Hospitals NHS Trust, Hazel Edwards, East and North Hertfordshire NHS Trust, Pamela Parker Hull and East Yorkshire Hospitals NHS Trust, Jean Wilson University of Leeds, and Dr Rhodri Evans, Morriston Hospital Swansea.

Obstetrics and gynaecology

10 December 2012 - Monday Day 1

8:30-9:30 Registration and Welcome

9:30-11:00 **Fetal Heart**
Embryology *S. Goodburn*
Cardiac Screening *E. Dyer*
Prognosis of Cardiac Anomalies
Proffered Papers

11:30-12:30 **Unusual case: what can we learn?**
Proffered obstetrics case studies

12:30-13:30 Lunch

13:30-14:30 **Peter Twining lecture** *Prof. G. Smith*
Why does routine ultrasound in late pregnancy not improve outcome in low risk women?

14:30-15:00 **Paediatric ultrasound:** Gynaecological Paediatric Ultrasound *J. Hughes*

15:00-16:30 **Ventriculomegaly**
Screening for ventriculomegaly *S. Cumming*

Tertiary referral for ventriculomegaly
Childhood prognosis of ventriculomegaly
Proffered papers

16:30-17:30 **Meet the experts** *Limited places!*
Fetal Doppler with three experts

17:00-18:30 **Poster session and Welcome reception**

11 December 2012 - Tuesday Day 2

9:00-10:30 **Gynaecology 1**
Case report discussions

11:00-12:30 **A womb with a view: the hidden history of obstetrics ultrasound**
Visualisation of the fetus in history *N. Hopwood*
Imaging and imagining the fetus: the development of obstetric ultrasound *J. Fleming*
3D/4D ultrasound and changing views of the fetus in society *J. Roberts*

12:30-13:30 Lunch

13:30-14:30 **Donald MacVicar Brown lecture**
High Intensity Focused Ultrasound *G. ter Haar*

14:30-16:00 **Basic Gynaecology workshop** *Limited places!*

16:30-18:00 **Gynaecology Case Histories**
Proffered papers and gynaecology case studies

19:30 - late **Conference Dinner and Awards**

12 December 2012 - Wednesday Day 3

9:00-10:00	Ultrasound education using simulators Writing a tutorial for learning essential ultrasound skills on the 'Ultrasim'. <i>D. Cole</i> Teaching junior doctors obstetric ultrasound using the 'Ultrasim' <i>G. Masson</i> Use of virtual reality simulation for transvaginal ultrasound scan training <i>N. Woodhead</i>
10:00-11:00	Science Fair (with prizes!) Hands-on safety demonstrations
11:00-12:30	Gynaecology 2
12:30-13:30	Lunch / BMUS AGM (<i>members only</i>)
13:30-15:00	Advanced Gynaecology workshop <i>Limited places!</i>
15:00-16:00	Quiz and Closing Ceremony

This year's meeting celebrates the role of ultrasound in **Obstetrics and Gynaecology**.

We offer three full days of Obstetrics and Gynaecology sessions, with obstetrics sessions focusing on the Fetal Heart and Ventriculomegaly. Gynaecology sessions include adnexal masses, ectopic pregnancy and case histories. We also look back on the astonishing history of the development of obstetric ultrasound, as well as to the future through the use of virtual reality and simulators in training future practitioners.

Sessions are more interactive than ever before with opportunities for hands-on training in small group workshops and Meet the Expert tutorials, contributions of case reports and posters, as well as hands-on safety demonstrations and exhibits.

The highlight of this year's obstetric programme will be the **Peter Twining lecture** given by Professor Gordon Smith, a dynamic speaker whose research interests include the prediction of adverse pregnancy outcome.

The programme also includes a fetal cardiac session which will discuss the abnormalities we should expect to detect through routine screening and their prognosis. The second obstetric session will revisit the current guidelines for measuring the lateral ventricles as well as discuss the management and long term outcome of ventriculomegaly. The fetal Doppler session will be your chance to draw on the knowledge of our panel of experts.

NEW for this year's ASM is a dedicated PowerPoint session for discussion of obstetrics case reports. Submitting a case report is easy; you only need to prepare one PowerPoint slide using the BMUS template and be willing to give a 5 minute informal presentation. So if you have an interesting or unusual obstetric case that you would like to share, don't forget to submit it to this year's ASM in Telford!

Ellen Dyer
[Scientific Organising Committee]

YOUNG INVESTIGATOR AWARD 2012



Would you like to win €1000?

Are you:

- under 35yrs of age by 9th Oct 2013?
- a BMUS member?



Then here is a chance to

- present your cutting-edge research at Ultrasound 2012
- win the prestigious BMUS Young Investigator Award 2012 and represent the UK at EUROSON 2013 9-12 Oct 2013, Stuttgart



Visit www.bmus2012.org

Vascular

10 Dec 2012 - Monday Day 1

8:30-9:30 Registration and Welcome

9:30-12:30 DVT scanning Integrated Training Day (hands-on training)

9:30-11:00 **Physics I (Vascular)**

The curious case of the contrast microbubble *V. Sboros*
Proffered papers

Fetal Heart

Embryology *S. Goodburn*
Cardiac Screening *E. Dyer*
Prognosis of Cardiac Anomalies
Proffered Papers

11:00-12:30 **The future of ultrasound; preclinical**

Functional ultrasound for neuroscience *M. Tanter*
Preclinical advances *C. Moran*
Proffered papers

Liver

Liver Doppler - when are they useful? *J. Pilcher*

12:30-13:30 Lunch

13.30-14.30 **Meet the expert** *Limited places!*

Pitfalls of scanning: when it all goes horribly wrong! *T. Hartshorne*
Vascular Sonographer, Tim Hartshorne, author of '*Vascular Ultrasound: How, Why and When*', shows that scanning can sometimes go awry even for the most experienced sonographers

14.30-15:30 **Science Fair** (with prizes!)

Safety demos

Vascular phantoms

Paediatric Ultrasound

Paediatric renal ultrasound *K. Park*
Ultrasound of vascular anomalies *A. Barnacle*

16:30:17:30 **Professional issues**

Seven day working (*interactive debate*)
DVT who, when and why? (*interactive debate*)

Meet the experts *Limited places!*

Fetal Doppler with three experts

17:00-18:30 **Poster session and Welcome reception**

11 Dec 2012 - Tuesday Day 2

09:00-11:30 **Veins**

Patient positioning for varicose vein scanning *M. Bonfield*
Proffered papers
Hands-on varicose vein scanning (*Expert Faculty*)
Pelvic varices: diagnosis and treatment *K. Norse*
Ultrasound-guided endovenous laser therapy *T. Wallace*

11:00-12:30 **Meet the expert** *Limited places!*

Sonographer Reporting workshop (*Expert Faculty*)

12:30-13:30 Lunch

13:30-14:30 **Donald MacVicar Brown lecture**

High Intensity Focused Ultrasound *G. ter Haar*

14:30-15:30 **Young Investigator Session**

15:30-18:00 **Professional Issues: sonographers**

Modernising scientific pathways (*Interactive debate*)
Is the profession of sonographer
in danger of being dumbed down? (*Interactive debate*)

Perfusion Imaging: research and clinical applications

Contrast Ultrasound Dispersion Imaging *H. Wijkstra*
Proffered papers

19:30 - late **Conference Dinner and Awards**

12 Dec 2012 - Wednesday Day 3

9:00-10:30	Arteries AV fistula ultrasound mapping <i>Tracey Gall</i> Proffered papers Hands-on AV fistula mapping (<i>Expert Faculty</i>)	Science Fair (with prizes!) Safety demos Vascular phantoms
11:00-11:30	EFSUMB CEUS non-liver guidelines <i>D. Cosgrove</i>	
11:30-12:30	Vascular Portable US : Use in the Vascular Service <i>T. Hartshorne</i> Proffered papers	
12:30-13:30	Lunch / BMUS AGM (<i>members only</i>)	
13:30-14:30	What makes a good ultrasound image?	
15:00-16:00	Quiz and Closing Ceremony	

Our busy vascular schedule covers the latest scientific developments in vascular ultrasound, as well as more clinically oriented lectures and practicals co-ordinated by Stephen Wolstenhulme (University of Leeds) and Tracey Gall from the Society of Vascular Technologists. The vascular sessions are designed to complement a parallel Integrated Training Day on Monday 10th Dec, which provides hands-on training and supplemental learning materials for DVT scanning (organised by Borsha Sarker).

NEW this year are lecture sessions featuring 'live scanning' and practical demonstrations for both arterial and venous topics. The session on Tuesday morning will consider the role of ultrasound in the management of patients with varicose veins and pelvic varices. Wednesday morning is dedicated to the role of ultrasound in the assessment of haemodialysis arterio-venous fistula mapping.

Vascular radiologists, sonographers and technologists will also be able to keep abreast of cutting edge practice and professional development issues by accessing the professional issues sessions.

BMUS members with fond memories of past ASMs will be pleased to hear that the meeting will be held just before Christmas this year from the 10-12th December, providing a welcoming festive setting to network and socialise with friends and colleagues.

Our Conference Dinner and Awards Ceremony will be held at the Ironbridge Gorge World Heritage Site Museum, providing an opportunity to enjoy a meal and dance the night away in a unique setting.

If you haven't yet submitted a Scientific Abstract or Case Report it's not too late!

Our Abstract deadline has been extended until the **24th of August** to allow for the holiday period.

Hoping to see you in Telford!

Emma Chung
[Scientific Organising Committee]



Scientific programme

10 Dec 2012 - Monday Day 1

8:30-9:30 Registration and Welcome

9:30-11:00 **Physics (Vascular)**
The curious case of the contrast microbubble *V. Sboros*
Proffered papers

11:00-12:30 **The future of ultrasound in medicine; preclinical research**
Functional ultrasound for neuroscience *M. Tanter*
Preclinical advances *C. Moran*
Proffered papers

12:30-13:30 Lunch

14.30-15:30 **Science Fair** (with prizes!)
Safety and scientific demonstrations

15:30:16:30 **Meet the experts**
Interactive physics problem solving with a panel of experts

17:00-18:30 **Poster session and Welcome reception**

11 Dec 2012 - Tuesday Day 2

9:00-9:30 **EFSUMB elastography guidelines** *D. Cosgrove*

9:30-11:00 **Physics and clinical applications of elastography**
Technical aspects of elastography *M. Tanter*
Clinical applications of elastography *A Saftoiu*
Case discussion and proffered papers

11:00-12:30 **A womb with a view: the hidden history of obstetrics ultrasound**
Visualisation of the fetus in history *N. Hopwood*
Imaging and imagining the fetus: the development of obstetric ultrasound *J. Fleming*
3D/4D ultrasound and changing views of the fetus in society *J. Roberts*

12:30-13:30 Lunch

13:30-14:30 **Donald MacVicar Brown lecture**
High Intensity Focused Ultrasound *G. ter Haar*

14:30-15:30 **Young Investigators' Session**

10:00-11:00 **Science Fair** (with prizes!)
Safety and scientific demonstrations

16:30-18:00 **Perfusion Imaging: research and clinical applications**
Contrast Ultrasound Dispersion Imaging *H. Wijkstra*
Proffered papers

19:30 - late **Conference Dinner and Awards**

12 Dec 2012 - Wednesday Day 3

9:00-10:00	Ultrasound education using simulators Writing a tutorial for learning essential ultrasound skills on the 'Ultrasim'. <i>D. Cole</i> Teaching junior doctors obstetric ultrasound using the 'Ultrasim' <i>G. Masson</i> Use of virtual reality simulation for transvaginal ultrasound scan training <i>N. Woodhead</i>
10:00-11:00	Science Fair (with prizes!) Safety and scientific demonstrations
12:30-13:30	Lunch / BMUS AGM (<i>members only</i>)
13:30-14:30	What makes a good ultrasound image?
15:00-16:00	Quiz and Closing Ceremony

Science meets Medicine

Our scientific programme brings together clinicians and researchers from all over the world to present the latest advances in ultrasound research.

Our Donald MacVicar Brown lecture this year will be given by Gail ter Haar who has had a dazzling career, championing ultrasound safety and pioneering High Intensity Focused Ultrasound for the treatment of cancer.

Scientific topics covered during our meeting include:

Functional ultrasound

Mikael Tanter will be travelling from Paris to introduce us to functional ultrasound imaging (f-US) for neuroscience. Functional ultrasound is an ultrasensitive imaging technique that uses plane-wave illumination at high frame rates to visualise whole-brain microvasculature dynamics with spectacular spatiotemporal resolution. A very exciting development!

Contrast agents and perfusion imaging

The meeting provides a forum for discussion of recent advances in microbubble contrast agent fabrication and to present novel research highlighting the therapeutic and imaging applications of ultrasound contrast agents. Keynote speakers include Hessel Wijkstra from the Netherlands who conducts world-leading research in the diagnosis and treatment of prostate and kidney cancer using contrast enhanced ultrasound.

Ultrasound elastography

Our session on the Physics and Clinical Applications of ultrasound elastography provides an opportunity for delegates to familiarise themselves with the ever expanding range of clinical applications of elastography ranging from tissue imaging to carotid plaque characterisation. We also report new EFSUMB guidelines for elastography.

Researchers have an opportunity to present and discuss their latest research through oral and poster presentations. NEW this year are our Hands-on Science Fair and Young Investigators Sessions, and added opportunities for networking and collaboration.



Radiology and general ultrasound

10 December 2012 - Monday Day 1

8:30-9:30 Registration and Welcome

11:00-12:30 **Liver Ultrasound**

Liver Doppler - when are they useful? *J. Pilcher*
Role of ultrasound in patients with chronic liver disease *A. Lim*
Case discussion and proffered papers

12:30-13:30 Lunch

14:30-16:00 **Paediatric ultrasound**

Gynaecological Paediatric Ultrasound
Paediatric renal ultrasound *K. Park*
Ultrasound of vascular anomalies *A. Barnacle*

Head and Neck

Practical tips to avoid pitfalls in the neck

Head and neck workshop

16:30-17:30 **Characterising liver lesions using ultrasound and MRI**

Imaging characteristics of benign liver lesions *S. Ryan*
Imaging characteristics of malignant liver lesions *M. Donofrio*
Case discussion and proffered papers

Management of the thyroid nodule

Introduction and overview *J. Smith*
Management of thyroid masses *R. Ajan*
Role of ultrasound *R. Evans*
Outcome of local audit of thyroid imaging *T. Evans*

17:00-18:30 Poster session and Welcome reception

11 December 2012 - Tuesday Day 2

9:00-9:30 **EFSUMB elastography guidelines** *D. Cosgrove*

9:30-11:00 **Physics and clinical applications of elastography**

Technical aspects of elastography *M. Tanter*
Clinical applications of elastography *A. Saftoiu*
Case discussion and proffered papers

12:30-13:30 Lunch

13:30-14:30 **Donald MacVicar Brown lecture**

High Intensity Focused Ultrasound *G. ter Haar*

14:30-15:30 **Young Investigators' Session**

15:30-16:30 **Bowel**

Is bowel ultrasound useful? *T. Higginson*
Ultrasound in inflammatory bowel disease - how does
ultrasound compare with other imaging modalities? *A. Plumb*
Ultrasound of the pancreas *M. Donofrio*

Science Fair (with prizes!)

Hands-on safety demonstrations

16:30-18:00 **Perfusion imaging: research and clinical applications**

Contrast Ultrasound Dispersion Imaging *H. Wijkstra*
Proffered papers

19:30 - late **Conference Dinner and Awards**

Lectures and events featured in our **general ultrasound** schedule include abdominal sessions dedicated to Ultrasound of the Liver and Bowel, Renal ultrasound, Male Health and Paediatric ultrasound.

We also feature an afternoon of Head and Neck ultrasound with lectures and a practical workshop coordinated by Rhodri Evans, followed by a panel discussion on clinical management of thyroid masses.

The last day of the meeting includes an introduction to Breast ultrasound with proffered papers and case discussions followed by an interactive workshop summarising practical scanning techniques, elastography and breast biopsy. Perfect for beginners, or as revision for those with previous experience.

12 December 2012 - Wednesday Day 3

10:00-11:00	Renal ultrasound Ultrasound imaging of renal transplants <i>C. Harvey</i> Replacing contrast CT with CEUS in follow-up of cryoablation renal tumours <i>H. Wijkstra</i> Case discussion and proffered papers	Breast Introduction to breast imaging <i>C. Lewis</i> Ultrasound-guided interventional techniques of the breast and axilla <i>J. Kelly</i>
11:00-12:30	Male Health Elastography and CEUS in focal testicular lesions <i>D. Huang</i> Do we need MRI and/or CEUS in the diagnosis of prostate cancer? <i>H. Wijkstra</i> Case discussion and proffered papers	Breast Workshop <i>Limited places!</i> An interactive workshop giving a taster of breast scanning techniques, elastography and biopsy in small groups (<i>Expert faculty</i>)
12:30-13:30	Lunch / BMUS AGM (<i>members only</i>)	
13:30-15:00	Interventional ultrasound	
15:00-16:00	Quiz and Closing Ceremony	

For those who are interested in branching out into ultrasound of other species, our **veterinary** schedule begins with a joint human-veterinary session describing sporting injuries in athletes and the performance horse. We welcome European Veterinary Specialist in Diagnostic Imaging, Tim Trevail, and the local veterinary practice of Jörg Niehögen, in delivering a stimulating day of talks, interesting cases and hands-on workshops on interventional veterinary ultrasound and practical scanning of dogs.

Veterinary

11 December 2012 - Tuesday day 2

8:30-9:00	Registration	
9:00-10:30	Joint human and veterinary 'Olympics Special' Ultrasound of upper limb sporting injuries <i>A. Dunn</i> Ultrasound of lower limb sporting injuries <i>L. King</i> Use of Ultrasound in diagnosis of sporting injuries in the performance horse <i>Sarah Boys-Smith</i>	
11:30-12:30	Interventional veterinary ultrasound workshop (<i>Expert Faculty</i>)	<i>Limited places!</i>
12:30-13:30	Lunch	
13:30-14:30	Donald MacVicar Brown lecture High Intensity Focused Ultrasound <i>G. ter Haar</i>	
14:30-15:30	Veterinary ultrasound imaging - Interactive case discussions Getting to the guts of it: Gastrointestinal Ultrasound Imaging <i>T. Trevail</i> Proffered papers and case discussions	
16:30-18:00	Practical scanning workshop with dogs	
19:30 - late	Conference Dinner and Awards	



On your marks, get set, *Go!*

Ultrasound at the Olympics

As worldwide sponsor of the London 2012 Olympic Games

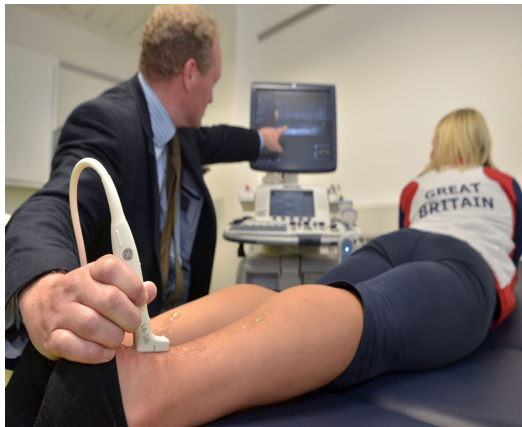
GE is the official healthcare partner and **GE Healthcare** has been working closely with the London Organising Committee for the Olympic and Paralympic Games (LOCOG), to provide significant support from a healthcare standpoint for the world's Olympic athletes, and ultimately patients everywhere.

For healthcare providers, each edition of the Olympic Games means advances in patient care. A perfect forum to put healthcare technology to the test; the world's best athletes push themselves to the limits and a lot of pressure is put on their bodies, increasing the risk of injury. This is why access to GE's Healthcare's latest imaging and monitoring equipment will help such elite athletes and their coaching teams achieve an early and accurate diagnosis of injury, allowing for quicker decisions to be made on the best treatment options.

GE Healthcare is pleased to have supplied and installed a broad range of the latest healthcare technology to the London 2012 Olympic Polyclinic. This includes the latest ultrasound scanners (VENUE 40 and LOGIQ E9), 2 state-of-the-art, advanced MRI scanners (Discovery MR750w wide bore 3T and Optima MR450w wide bore 1.5T, both with GEM Suite), the latest CT scanner (Discovery 750HD CT) and a wireless digital x-ray system (Discovery XR656) to provide high quality images that will help medical staff diagnose even minor injuries as early as possible. GE Healthcare has also supplied a number of the very latest ECG diagnosis systems (MAC 5500 ECG system) to help monitor, analyse and interpret heart rhythms. Joining all of this together is GE Healthcare's Centricity RIS/PACS system which will aid the management of, and access to, medical images and clinical data by medical staff.

In addition to the London 2012 Olympic Polyclinic, Olympians will have access to ultrasound systems at Weymouth (Sailing), Eton Dorney (Rowing), and the Greenwich (Equestrian),

while for the general public, over 200 defibrillators will be located at different venue sites in case of emergency.



At the Polyclinic, the LOGIQ E9 will assist the diagnosis of even the smallest strains and sprains to provide athletes and coaching teams with vital information for competition.



GE's last experience of a summer Games was in Beijing in 2008. GE Healthcare equipment helped support medical staff in approximately 21,500 medical encounters which included more than 320 ultrasound scans, 440 MRI scans and 450 x-rays.

The company learned a lot from that experience and has used this to support LOCOG in their objective of providing a world class medical service to the best athletes from around the globe during the London 2012 Olympic and Paralympic Games.

Philips Healthcare in Pole Position at the British Grand Prix

Silverstone bosses may have been powerless to prevent the crowd from being drenched at the Formula 1 Grand Prix recently, but thanks to **Philips Healthcare**, they had one of the best-equipped medical centres at any circuit in the world.



For the British Grand Prix, Philips Healthcare provided £500,000 worth of medical equipment and trained medics to use the very latest life-saving systems, including the brand new touch-screen Philips Sparq Ultrasound and Mobile Diagnost wDR x-ray system. These cutting-edge machines, along with X2 patient monitors and robust HeartStart defibrillators tested by the US army, were put to good use as a steady stream of injured drivers, crew and spectators came through the medical centre doors.

Dr. Ian Roberts – Chief Medical Officer of Silverstone and the British Grand Prix said: “Formula 1 is the most fantastic sport and safety has improved immeasurably over the years but we can’t afford to be complacent. The speed of the cars and the volatile nature of the materials we are dealing with mean that crashes can mean life or death.

“Speed of response is essential and we are lucky enough to be using the fastest high-tech medical equipment in existence such as the Philips Sparq. The constructors expect the best performance from the cars and their drivers and we, the medical team have to be prepared and confident that we can rely on our technology whether there is a minor incident or major disaster. Philips has supported us at the Medical Centre for the last 10 years and it makes a huge difference to the quality of care we can give to the patients we treat at Silverstone.”



Volunteer doctors, nurses, paramedics and allied health professionals made up a Medical Team of more than 100, providing cover for the Grand Prix. Two trauma teams based in the Medical Centre, were all consultant doctors and senior nurses with specialities include Anaesthesia, Neurosurgery, Emergency Medicine, Cardiothoracic surgery, Orthopaedics, Radiology and General Practice.

The Silverstone Medical Centre, located trackside along the Wellington Straight, opened in March 1995. It has been transformed over the last ten years, thanks to support and equipment donated by Philips Healthcare, into a small high-tech hospital. It has a large four-bay Resuscitation Room; a Major Treatment room; Burns Unit; X-ray facilities – including a dark room, two-bay Minor Injuries Room and two wards which can accommodate four patients each.



Katie O’Driscoll, of Philips Healthcare UK and Ireland added:

“Philips Healthcare is delighted to support Silverstone in providing the finest medical equipment to treat everyone who is injured or unwell at the world-famous circuit. In emergency medicine - just as in the pit lane - every fraction of a second counts. So it was with particular pride that we were able to deliver the brand new Philips Sparq Ultrasound and the Philips Mobile Diagnost wDR x-ray system to Silverstone, especially for the Formula 1 British Grand Prix. Formula 1 enthusiasts will recognise the value and beauty of technical excellence and innovation – something we at Philips Healthcare strive for in everything we do.”

If you would like any more information about Philips Healthcare, please contact:

Barbara Neate
Media Relations Manager
Philips Electronics,
Corporate Communications UK
T: + 44 (0) 1483 293 071
E: barbara.neate@philips.com

RIP Kate the chimp

Chester Zoo is home to one of the world’s largest and most successful groups of Zoo Chimpanzees. It is also part of a European managed breeding programme.

While the chimp being scanned in the picture to the right is very healthy for his age, a positive bill of health was not the case for another chimp at the zoo.

Sadly, Kate the chimp recently passed away after a short illness. Some of you will remember that this is the chimp that past BMUS President Julie Walton

scanned a few years back, and has monitored ever since. Her scan resulted in the surgeon subsequently removing a huge black stone from distal bile duct in Kate, measuring 7cm x 3.5 cm.

Kate recovered from this very well and thrived for 2 years with her fellow primates. However, she was struck down by a malignant mass in her hip and was put down last month.



Cardio specialists Rob Shave and Eric Stohr from Cardiff Metropolitan scanning 25 year old Dylan the chimp’s heart

BMUS Summer School

The sun came out to play on day 2 of the BMUS Summer school, held in at Bristol Zoo in June. A mix of sonographers, radiologists, vets and vascular surgeons thoroughly enjoyed an innovative varied programme put together by Dr Mike Bradley, Southmead Hospital, Bristol.

Day 1 focused on renal/vascular day, while day 2 was MSK based. Aply, given the venue, the programme contained a veterinary theme throughout.

“The event was superbly organised and provided a great fun, informal learning environment to exchange ideas.”

A vet attendee said;

“Veterinary surgeons should be encouraged to attend your meetings. They may not always appear to be directly relevant, but we have a lot to learn from our human colleagues!”

During breaks delegates were able stroll around the exquisitely designed zoo gardens. Gorilla Island proved a big hit, as did the baby meerkats and the amorous little lizards pictured above.

Delegates also loved the copious amounts of high quality food the venue provide as part of the conference package. Cream tea anybody?



Martin Williams, North Bristol Trust, imparting his Achilles tendon injuries knowledge

Many thanks to GE, Philips, Hitachi Aloka, Siemens, Toshiba and Esaote, who provided their time and equipment for hands-on sessions.

BMUS Integrated Training Day

Advanced e-learning & ASM package

VTE Epidemiology, Politics and Current Thinking - *Dr Roopen Arya*
Anatomy and Physiology of the Leg: IVC to ankle - *Dr Rhodri Evans*
Anatomy and Physiology of the Arm and Neck: SVC to wrist - *Dr Rhodri Evans*

Role of Limited Compression Ultrasound - *Dr Nicola Drake*
Differential Diagnosis in the Swollen Lower Limb - *Mrs Joanne Coleman*

Venography is still the Gold Standard - *Dr Lol Berman*
Sono-Venography for DVT – How, Why and When? - *Miss Borsha Sarker*
Symptomatic versus Asymptomatic Limbs – a review of policy - *tbc*
Clinical Assessment of the patient with a potential DVT - *Dr Clive Kelly*

Screening with D-Dimer - *Miss Borsha Sarker*
Reporting Complexities - *Mrs Jean Wilson*
Pitfalls of setting up a Sonographer Led Service - *Dr Rhodri Evans*
Post Phlebotic Limb – the Sting in the Tail - *Dr Dave Roberts*

Core Module: BMUS Basic Physics & Knobology
Q & A session with Faculty

This training day is worth 15 CPD credits

7 hours Lecture Content plus 3 hours Practical plus

2 hours Reading – 12 CPD points

PLUS 3 CPD points for half day ASM attendance
= 15 CPD points

Practical workshop on Monday 10th December at the BMUS 2012 ASM, Telford

- Iliac veins and IVC – Practical Tips
- Lower Limb: Venous Fem-Pop – Paired Femorals & Challenging Legs
- Lower Limb: Calf Veins – A Magical Mystery Tour
- Upper Limb: Arm and Neck Veins – A Pragmatic Approach

Dates for your diary

August

21st - BMUS head and neck day, Plymouth

24th – (extended) abstract and difficult case submission deadline

September

5th - BMUS paediatric ultrasound day, Exeter

28th - BMUS 2012 early bird registration deadline. Register now for a discounted rate!

7th – BMUS, University of Leeds & GE Healthcare focal liver lesion disease: patient pathway, Leeds

13th – BMUS & University of Leeds abdominal aortic aneurysm repair: surveillance - patient pathway, Leeds

28th - Early bird registration closes for BMUS 2012

December

10th - BMUS DVT integrated training day, Telford

10th -12th **BMUS Annual Scientific Meeting & Exhibition, Telford**



For further info email bookings@bmus.org
More events will be announced-
www.bmus.org/conference-events/ce-studydays.asp