

# British Medical Ultrasound Society News

November 2012

## The countdown to **Ultrasound 2012** begins...

Clocks go back, wet leaves turn rails into ice rinks and the morning walk to work is cold, damp and dark (the return home similar but with Orion high in the evening sky). But cheer up, the BMUS Annual Scientific Meeting is upon us, a mixture of the familiar - we're back to December – and the new – we've gone to the Midlands.

There's a vibrant feel to this year's programme, Emma Chung and her team have given us an excellent range of hot topics, from clinical implementation of new techniques to discussion and debate over the changes all of us in healthcare provision are feeling.

### So why go to BMUS Telford?

Because it is a wonderful chance to meet up and talk about the challenges, the opportunities, the problems and solutions, the innovations, the science, the practice, the scanners, the ancillary equipment, the techniques, hints for making things better, easier, more effective. It's a chance to consult, to learn, to teach, to chat, to listen, to see, to enjoy, to gossip (don't deny it), to sympathise, to empathise and to communicate because pretty well every problem we see ends up being the result of poor communication.

### *In this issue...*

**Ultrasound at the 'greatest show on Earth'**

**Historical Collection**

**Awards**

**Ultrasound down south**

**Scanning at the zoo**

**Ultrasound 2012  
Personalized itineraries &  
updates**

**Dates for your diary**

10 - 12  
December 2012

Telford  
International  
Centre

*Continued pg.3*



## BMUS *Historical Collection*



**John Fleming symbolically handing new Curator Amanda Watson the key to the BMUS Historical Collection**

## London 2012–

**Borsha Sarker gets behind the scenes of 'the greatest show on Earth'**

**Having recently spent a frantic ten days helping staff the Radiology Department at the Polyclinic during the Olympic Games, here's a small snapshot of my personal highlights. The first and best for me was a ticket to the Opening Ceremony technical rehearsal which I won through the ballot of volunteers. It was simply amazing!**

The Polyclinic itself is an unusually attractive building with lots of glass, which focused the sun when it shone like a lens directly onto x-ray reception! Consequently working conditions were sweltering initially until someone tracked down some electric fans.

Day one was a baptism of fire! General abdominal ultrasound was only formally available each morning covered by a Sonographer with a comprehensive MSK service available from 7am-11pm using two ultrasound rooms. All the radiology equipment was supplied by GE. The two MRI scanners worked around the clock solidly whilst I was there. Non contrast CT was available as well as X-rays. I was rostered as a volunteer Radiology Assistant, the bulk of my work being admin based at x-ray reception, making appointments, booking in scans and x-rays, writing CD's, printing reports, recording statistics for LOCOG, etc., but I still found myself a few general abdominal ultrasound scans to do on each shift. All the volunteers were Radiographers or Radiologists, except for one Radiology Assistant.

After many wonderful years at the Historical Collection helm, last month John Fleming stepped down.

We welcome **Amanda Watson** to the position and get the low-down on our new Historical Collection Curator.

“

I first became interested in ultrasound in 1988 while studying for MSc in Medical Physics at Aberdeen. Spent a few years in Bath working on non-linear aspects of ultrasound. Moved to Glasgow in 1992 to work on the Ultrasound Equipment Evaluation Project for 12 years where I was lucky enough to have the opportunity to test and evaluate the "latest-thing".

When the project finished in 2004, I began working in the Vascular Laboratory which I continue to support in combination with my current role as lead ultrasound physicist for NHS Greater Glasgow and Clyde, dealing with the

Like the rest of the general public, athletes and their entourages still get generally sick, not just with sports injuries which were largely taken care of by the MSK Radiologists. The types of cases included abdominal & pelvic pain, renal colic & pyelonephritis, general malaise, arterial injury and DVT and included such challenges as focal liver lesions and even ovarian torsion.

Only a handful of patients required transfer to the Homerton for further imaging and treatment so the majority of cases were managed within the Polyclinic environment. I'm not aware of the final stats, but by the end of my ten day stint this was in excess of 32,000 interactions with less than 20 transfers to burden the NHS, which is amazing. The busiest departments seemed to be dentistry and eyes.

**Some of the 1st Class Ultrasound Team at the Olympics – Royal Mail style**

*Borsha Sarker,  
Pauline Alpin, Denis Remedios*



realities of using and maintaining older equipment and the occasional niceties of purchasing new scanners.

My research interests have mainly been in the area of ultrasound performance testing and, more recently, have strayed, out of modality, into the field of MRI blood velocity measurement (in comparison with ultrasound Doppler, of course!) Since I first came to Glasgow 20 years ago, I have been very aware of how proud this city is of its connection with the development of ultrasound.

I am honoured to have been given the opportunity to continue the "Glasgow Connection" and look forward to giving some TLC to the valuable collection of objects, artefacts, books and documents in the BMUS Historical Collection.”

**Thank you for all your hard-work and dedication, over the years, John. We hope you enjoy being involved with this unique collection, Amanda.**

The hours were sometimes challenging. A late shift finished at 11.30pm with an hour trip home for me, rising again at 4.45am to make a 6.30am start for the early shift. I worked like a Trojan for about four days, generally overawed and suffering from lack of sleep between shifts until I met Kate Custis who introduced me to the Village Plaza, collectables and shopping! There was a general store, post office, ticket office, beauty salon, mini film studio and broadcast area where something was always going on and great for people spotting.

### President's column continued...

This really is a challenging time for many of us. If I take my own experience, we have lost staff to private providers who are tendering for NHS services - why not - and are paying more than we can. Why are they paying more than we can? Perhaps because our coding is poor and we start from where we are not from outside.

We are unable to recruit trained staff. Our training scheme has changed to fit in with Modernising Scientific Careers, this requires support of our own trainees and other areas in the trust and is in a state of flux and development. No funding for training support is provided. We are being asked to provide new services and more clinics for new and existing services in our own and other hospitals, some of which are in a state of financial crisis.

Seven-day working is being introduced hesitatingly, laudable to respond to patients but difficult with fewer staff. Remaining staff are feeling the strain and are voting with their feet, some to private providers – see above – the most recent to scan in Queensland where the surfing is better than in Kent. Good luck with the Great Whites.

And the University is asking for more teaching for more students, mainly for Modernising Scientific Careers – see above. But there's no funding – see above, despite a large increase in fees payable by our own students, and in the hospital the cost per clinical test, which was never very high - way down on the tariff - is being driven down. If I feel like a character in an Edvard Munch painting, I'm sure I'm not alone.

And for me, as it's my last meeting as President, it's a chance to say thanks to everyone who helps at BMUS, because there are so many who do and there's far too many to name in one column.

It's astonishing, humbling and reassuring that so many members put so much voluntary effort into helping the science and practice of medical ultrasound within this country and outside it through BMUS.

**So thank you all and see you in Shropshire. It's my round.**



### Ultrasound at the Olympics contd.

I learnt about the staff passes into the Olympic Park which one could borrow for an hour or two to soak up the atmosphere during quiet times or after finishing your shift. I was even able to get tickets for both diving and athletics through sheer luck at the village ticket office and got to see Mo Farah win the 5000m and the Jamaicans win the 4 x 100m relay.

Professionally I learnt lots from some of the Radiologists, particularly Denis Remedios, Andrew Carne and Phil Bearcroft. Andy Carne also kindly offered to mastermind the MSK sessions for the BMUS ASM in 2013.

I met some lovely people including the staff from GE who were great. Altogether it was a fantastic experience which I feel very lucky to have been able to participate in. Chatting on the Tube in London was definitely a novelty!



**Golden girls**– Back row L-R- Kate Custis, Emily Faircloth, PACS RIS applications specialist, Tracy Finlayson, Front row- Mel Marwood, Borsha Sarker, Pauline Alpin



*Polyclinic at sunrise*

*Closing ceremony fireworks. What a show it was!*



## UK accredited Vascular Sonographer receives 'Fellows Award' from the Society of Vascular Ultrasound of USA

Surinder Dhanjil is the first UK qualified vascular sonographer to receive 'the Fellows Award' from the Society of Vascular Ultrasound (SVU) of USA at their AGM.

SVU have been awarding membership designation of 'Fellow' to honour outstanding leaders in the field who preserve a wealth of experience and dedication for vascular ultrasound investigations. Fellows are recognised by SVU for their many contributions to the Society as well as to the vascular ultrasound profession. There is a strict criteria followed to nominate members for fellowship award and the award is not presented every year. The Successful Fellow is ceremoniously presented with a lapel pin and a SVU Fellows Certificate at the Annual Conference in USA.

Surinder qualified in general ultrasound and moved to specialise in vascular ultrasound. She is a Lead Vascular Sonographer at St Mary's Hospital, London.

**SVU Board Director, Patricia (Tish) A. Poe presenting Surinder with her 'Fellows Award'**



*She has been actively involved in clinical service development, research, teaching vascular ultrasound and has served on the executive committee of Society for Vascular Technology (SVT) of GBI for many years and became President of the society in year 2000.*

*She has also served on the education committee as a national continuing professional development (CPD) officer. She received an Award of Excellence in Scientific Research by Medasonics in 1996, which was presented to her at the SVU AGM in USA for the development of new duplex criteria to quantify carotid artery disease using ultrasound.*

*Her joint authorship in four other vascular ultrasound projects also received awards, including first prize from International Union of Angiology and 'Peter Bell Samuel' award from SVS USA.*

## Radiographer of the year 2012



**Congratulations to Gerry Johnson, Lead Sonographer at University Hospital of South Manchester, who has been named as Radiographer of the Year.**

The awards recognise the hard work and dedication of radiographers across the country. They are organized by the Society of Radiographers and sponsored by FujiFilm.

Gerry is a highly skilled Lead Sonographer, specializing in obstetric and general medical ultrasound. He is also a member of the National Ultrasound Advisory Group, and an Honorary Lecturer at the University of Liverpool.

The awards ceremony will take place on Wednesday 7 November, at the House of Commons.

***"I am very proud and honoured to have been chosen as the 2012 Radiographer of the Year. To receive the recognition of both my peers and the Society and College of Radiographers is particularly rewarding, not only for myself, but it is worthy recognition of my colleagues in the Ultrasound and Radiology Directorate at UHSM"***



Delegates take a break and mingle at the BMUS head and neck scanning day at the Peninsula Radiology Academy, Plymouth.

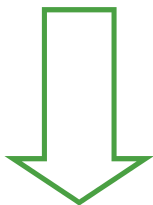
The event was part of the series BMUS ran in the south-west in 2012- (more info across the page.) It was run due to demand following the over-subscribed head and neck day in March in London.



# Ultrasound

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From time to time, members subtly remind us that London isn't the centre of the world, ultrasound or otherwise.

With the Olympics and Paralympics over, and the spotlight off the capital city, it's time to spread our wings once more and ensure we cater to our members all over the UK.

We often feel our members in the south-west are somewhat neglected and perpetually have to travel the length and breadth of the country to attend ultrasound events and up their CPD credits.

With this in mind, this year we ran a series of successful events down south– head & neck, contrast and paediatrics.

## Paediatric ultrasound day

September saw BMUS heading to the Rougemont Hotel in the lovely cathedral city of Exeter for our paediatric day.

Programme leads Dr Jo Gormally and Dr Jude Foster put together a packed interactive programme with local faculty Dr Sharon Brown, Dr Sue King, Dr David Grier, Dr Stephanie Mackenzie, Dr Simon Thorogood all lending us their time and expertise.

Dr Julia James played quizmaster and tested delegates with 10 'what? how? why? when?' cases.

Talks on renal, neck, cranial, hips, spines and abdomen u/s were interspersed with patient positioning demos using an impeccably behaved plastic doll.

A couple of attendees even travelled down from London once they realised the train journey to Exeter can take as little as 2hours 12mins....

**"This was a brilliantly structured programme with plenty of time for small group discussion and problem solving. My colleagues and I thoroughly enjoyed it."**

Exeter Cathedral



## BMUS contrast enhanced ultrasound day– the basics & setting up a service

**One** of the other ventures to the south-west was for a CEUS day at the superb Peninsula Radiology Academy, Plymouth.

Course leads Dr Simon Freeman, Dr Rosie Gray, Dr Catherine Gutteridge and Dr Paul Dubbins welcomed delegates from all over the UK.

Bracco UK Limited and Toshiba Medical Systems kindly sponsored the meeting and their representatives were on hand to provide advice and support.

***"A study day designed to increase your confidence in contrast enhanced ultrasound"***

Top contrast ultrasound expert Dr Adrian Lim, Charing Cross Hospital, spoke about his experiences setting up and providing a contrast enhanced ultrasound service- (CEUS.) His wealth of experience and myriad of case studies were very well received by all.

The afternoon focused on 'setting up a CEUS service in your department' and 'state of the art' technology, with Bracco and Toshiba show-casing 'of the moment' techniques and equipment.

The day culminated in a self-evaluation interactive quiz, giving delegates the chance to pit their knowledge against the panel of experts.



Smeaton's Tower, Plymouth Hoe

**Picture proof that Devon was indeed 'Sunny Devon' on at least two occasions this year!**

## Ssssssnake scanning

### Ophidiophobes among us, look away now!

Last month, staff at Chester Zoo got to grips with the longest snake in Britain, a 90kg, 23 ft long python called Bali.

Six volunteers carried the creature to Dr Eric Stohr, from Cardiff Metropolitan University, who then performed an ultrasound on her heart with colleague Dr Rob Shaver.

Not your average day in the office.

After two hours of pain staking preparation, the scan finally takes place.



**The BMUS Annual General Meeting will take place at 12:45 Wednesday 12th December at Ultrasound 2012, Telford.**

All BMUS members are welcome to attend.

Full details are enclosed with this mail-shot.

### BMUS Honorary members

Nominations have been received and results will be announced at the BMUS conference dinner at the Ironbridge Gorge on Tuesday 11th December.

The award is given to people who have given outstanding service to ultrasound.

We currently have 15 Honorary members. Sadly, the 16<sup>th</sup> passed away last year.

Come to our social evening at the conference to see who has been selected to receive this honour.

## Membership 2013

BMUS membership rates will go up marginally in January 2013. The small increase represents the RPI inflation at 1<sup>st</sup> July and represents an increase of approximately 3.2% in most cases.

The increased rates for membership in 2013 are as follows-

Sonographer	£82.60
Overseas Member	£124.00
European	£87.60
Student	£31.00
Retired / Unwaged	£62.00
Consultant / GP/ Radiologist	£106.00
Superintendent	£95.00
Vascular / Scientist	£71.00

# Ultrasound 2012

## The final countdown

We are currently on version number 69 of the programme. That tells you how often bits are tweaked here and there to ensure we deliver you the best possible conference experience. You can never please everybody, but we have tried our very best to make the programme work and appeal to as many people as possible.

We have enclosed the updated personalised itineraries on the following pages, along with other 'don't miss' highlights.

- **Sonographer Professional Development**
- **Obstetrics and Gynaecology**
- **Science and Research**
- **Radiology / General Ultrasound**
- **Vascular**
- **Head and neck / MSK**
- **Vets**

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

You can register in advance until **Friday November 30th**. Some of our limited number sessions are fully booked with others filling up fast, so **REGISTER NOW** if you haven't already done so!

Home of the Telford Tigers, Telford Ice Rink has just re-opened after a £4million refurbishment. The Telford Tigers christened the new facility at the end of October.

In the countdown to Christmas, what can be more Christmassy than donning your sequins and indulging in a spot of ice-skating followed by mulled wine? The ice rink is jump a hop skip and a slide directly across from the conference centre.

At least you'll be surrounded by doctors if you take a tumble doing your best Torvill and Dean impression...!



### Thanks to the following companies for supporting Ultrasound 2012-

About Healthcare Professionals, B-K Medical, BCF Technology, Bayer Healthcare (Medrad), Bracco UK, CAE Healthcare, Care UK, Casmed INT. Ltd, Diagnostic Health, Econo Group, Esaote UK, GE Healthcare, Hitachi Aloka Medical Systems, Imotek, Knight Imaging, Kirkham Young, Mana-Tech, Med Imaging, Medaphor, Mindray, NHS Newborn & Infant Physical Examination Programme, Novartis Animal Health, Philips Healthcare, Primal Pictures, Siemens Healthcare, Society & College of Radiographers, Sonosite, Supersonic Imagine Ltd, Toshiba Medical Systems, University of Hertfordshire, Vertec, Wisepress



### Under the spotlight:

#### **BMUS on ICE - 9th December 2012**

Get your skates on and join us for a special festive 'BMUS on ICE' disco night with strobe lights and snow at Telford Ice - rink

#### **'A night in the museum' conference dinner - 11th December 2012**

With a view of the magical illuminated Iron Bridge en route, everything comes to life at our annual conference dinner with drinks reception, three course meal with coffee, dancing, presidential inauguration and glittering prizes for best journal article, young investigator and best case/paper or poster presenters.

# Ultrasound 2012

## 10-12 December 2012

### Sonographer Professional Development



DAY 1 10 December 2012	DAY 2 11 DECEMBER 2012	DAY 3 12 DECEMBER 2012
<p style="text-align: center;"><b>Science Fair</b></p> <p>Hands-on interactive exhibits demonstrating ultrasound safety, bio effects and a range of phantoms and test objects.</p> <p>Opportunity to vote on 'what makes a good ultrasound image' <i>In association with the BMUS Safety Committee</i></p>	<p style="text-align: center;"><b>Meet the expert: Independent Ultrasound Reporting</b> <i>(Expert Faculty)</i></p> <p>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</p> <p style="text-align: center;"><b>FULLY BOOKED!</b></p>	<p style="text-align: center;"><b>Any Qualified Provider</b> <i>J. Walton &amp; P. Parker</i></p> <p>There will be an opportunity for discussion and debate.</p> <p style="text-align: center;">Keynote speakers: <i>O. Byass R. Donnan</i></p>
<p style="text-align: center;"><b>Seven day working: Who, when and why?</b> <i>G. Stansby and D. Boxer</i></p> <p>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 thrombo-embolic diseases clinical guidelines (2012) all lead to the development of 7 day imaging service in ultrasound.</p> <p>The session includes presentations regarding the new DVT guidelines, implementation of 7 day working and implications for ultrasound departments.</p> <p style="text-align: center;">There will be an opportunity for discussion and debate for delegates.</p>	<p style="text-align: center;"><b>Donald MacVicar Brown Lecture</b> <i>Prof. G ter Haar</i></p> <p style="text-align: center;">Seek and Destroy: a revived role for ultrasound?</p>	<p style="text-align: center;"><b>What makes a good ultrasound image?</b> <i>T. Evans</i></p> <p>A workstation will be set up throughout the conference for delegates to view pair of images and vote on what they consider the best.</p> <p style="text-align: center;">Feedback and discussion of the results is provided in this session.</p>
	<p style="text-align: center;"><b>The Changing Ultrasound Career Pathway - Is sonography in danger of being dumbed down?</b> <i>P. Parker</i></p> <p>Modernising Scientific Careers (MSC) is an ambitious work programme published by the DoH in 2010.</p> <p>Over these sessions 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.</p> <p style="text-align: center;"><i>J. Smith, O. Byass, T. Robinson, G. Harrison, H. Edwards, J. Wilson</i></p>	<p style="text-align: center;"><b>BMUS Annual General Meeting</b> BMUS members welcome</p>

### Under the spotlight:

**Day 1 - Peter Twining Obstetric Keynote lecture - 13:30 - 14:30**

Why does routine ultrasound in late pregnancy not improve outcome in low risk women? *Prof. Gordon Smith*

**Day 2 - Donald MacVicar Brown lecture - 13:30 - 14:30**

Seek and Destroy: a revived role for ultrasound? *Prof. G. ter Haar*

**Hub of Ultrasound 2012 - All 3 days from 9:00 - 18:00**

Our exhibition hall will be the buzzing social hub with feature displays and demonstrations of latest ultrasound equipment by manufacturers. Free wifi zone; Tea/Coffee refreshments will be served throughout the day.



# Ultrasound 2012

## 10-12 December 2012

### Obstetrics and Gynaecology



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 <b>DAY 1</b> <b>10 December 2012</b>	<b>DAY 2</b> <b>11 December 2012</b>	<b>DAY 3</b> <b>12 December 2012</b>
<b>Fetal Heart</b> Embryology <i>S. Goodburn</i> Cardiac Screening <i>E. Dyer</i> Prognosis of Cardiac Anomalies <i>P. Loughna</i> Proffered Papers	<b>Gynaecology 1</b> Management of suspected ovarian masses in Premenopausal Women RCOG/BSGE Greentop Guideline 62 <i>K. Lowden</i> Prediction of malignancy in adnexal masses <i>A. Sayasneh</i> Case report discussions	<b>Ultrasound Education using simulators</b> Writing a tutorial for learning essential ultrasound skills on the 'Ultrasim' <i>D. Cole</i> Teaching junior doctors obstetrics using the 'ultrasim' <i>G. Masson</i> Use of virtual reality simulations for transvaginal ultrasound scan training <i>N. Woodhead</i>
<b>Unusual case: what can we learn?</b> <i>E. Dyer &amp; T. Chudleigh</i> Proffered obstetrics case studies	<b>A womb with a view: the hidden history of obstetrics ultrasound</b> Visualisation of the fetus in history <i>N. Hopwood</i> Imaging and imagining the fetus: the development of obstetric ultrasound <i>J. Fleming</i> Scanning and family life <i>J. Roberts</i> BMUS Historical collection <i>K. Martin</i>	<b>Science Fair</b> Hands-on interactive exhibits demonstrating ultrasound safety, bio effects and a range of phantoms and test objects. Opportunity to vote on 'what makes a good ultrasound image' <i>In association with the BMUS Safety Committee</i>
<b>Peter Twining Obstetrics Keynote lecture</b> <i>Prof. G. Smith</i> Why does routine ultrasound in late pregnancy not improve outcome in low risk women?	<b>Donald MacVicar Brown Lecture</b> <i>Prof. G ter Haar</i> Seek and Destroy: a revived role for ultrasound?	<b>Gynaecology 2</b> <i>S. Johnson &amp; J. Hamilton</i> Ultrasound in emergency gynaecology - <i>E. Okaro</i> <i>Proffered papers</i>
<b>Ventriculomegaly</b> An evaluation of the consistency of measuring the posterior ventricle of the foetal brain <i>S. Cumming</i> Over Ten—what should happen next? <i>S. Russell</i> Proffered papers	<b>Advanced Gynaecology workshop</b> Prediction of malignancy in adnexal masses. This workshop will show how to describe adnexal masses & how to evaluate the risk of malignancy in such masses. <i>A. Sayasneh and S. Johnson</i> <b>Limited places!</b>	<b>BMUS Annual General Meeting</b> BMUS members welcome
<b>Meet the expert</b> Fetal Doppler with three experts <b>Very few places left!</b>	<b>Gynaecology Interesting cases</b> <i>S. Johnson &amp; A. Sayasneh</i> Ectopic Pregnancy - diagnosis & management <i>Judith Hamilton</i> Proffered case reports & discussion	<b>Basic Gynaecology workshop</b> The workshop is aimed at staff with little or no previous gynaecology ultrasound experience. <i>S. Johnson</i> <b>Limited places!</b>
<b>Poster session and Welcome reception</b>		<b>Quiz and Closing Ceremony</b> <i>R. Moshy</i> Light hearted quiz with prizes!

# Ultrasound 2012

## 10-12 December 2012

### Science & Research

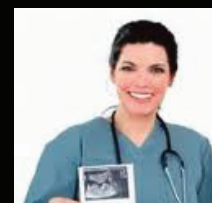


DAY 1 10 December 2012	DAY 2 11 DECEMBER 2012	DAY 3 12 DECEMBER 2012
<p><b>Cardiovascular Ultrasound</b> <i>E. Chung &amp; A. Gaur</i></p> <p>Transoesophageal echocardiography in the diagnosis &amp; management of thoracic aortic dissection. <i>R. Hebbali</i> Erythrocyte aggregation echogenicity revisited. <i>K. Humphries</i> Proffered papers</p>	<p><b>Perfusion Imaging: research and clinical applications</b></p> <p>Contrast Ultrasound Dispersion Imaging <i>H. Wijkstra</i> Dynamic contrast enhanced ultrasound technique for the monitoring of chemotherapy of liver metastasis. <i>M. Averkiou</i> Proffered papers</p>	<p><b>Ultrasound education using simulators</b></p> <p>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></p>
<p><b>The future of ultrasound in medicine: preclinical research</b></p> <p>Functional ultrasound for neuroscience <i>M. Tanter</i> 'Of mice and men - advances in preclinical imaging' <i>C. Moran</i> Proffered papers</p>	<p><b>Physics and clinical applications of elastography</b> <i>P. Hoskins &amp; P. Sidhu</i> Technical aspects of elastography <i>M. Tanter</i> Endoscopic ultrasound elastography <i>A. Saftoiu</i> The EFSUMB guidelines on ultrasound elastography Proffered papers</p>	<p><b>Science Fair</b></p> <p>Hands-on interactive exhibits demonstrating ultrasound safety, bio effects and a range of phantoms and test objects. Opportunity to vote on 'what makes a good ultrasound image' <i>In association with the BMUS Safety Committee</i></p>
<p><b>Science Fair</b></p> <p>Hands-on interactive exhibits demonstrating ultrasound safety, bio effects and a range of phantoms and test objects. Opportunity to vote on 'what makes a good ultrasound image' <i>In association with the BMUS Safety Committee</i></p>	<p><b>Donald MacVicar Brown Lecture</b> <i>Prof. G ter Haar</i></p> <p>Seek and Destroy: a revived role for ultrasound?</p>	<p><b>BMUS</b></p> <p><b>Annual General Meeting</b> BMUS members welcome</p>
<p><b>Meet the expert - Physics</b> <i>K. Martin</i></p> <p>Interactive physics problem-solving with a panel of experts</p>	<p><b>Young Investigators' Session</b></p> <p>Our young investigators battle it out to see who will represent BMUS at EUROSON 2013 in Stuttgart</p>	<p><b>What makes a good ultrasound image?</b> <i>T. Evans</i></p> <p>A workstation will be set up throughout the conference for delegates to view pair of images and vote on what they consider the best.</p>
<p><b>Characterising liver lesions using ultrasound and MRI</b> <i>A. Lim &amp; M. Donofrio</i></p> <p>Imaging characteristics of benign liver lesions <i>S. Ryan</i> Imaging characteristics of malignant liver lesions <i>M. Donofrio</i> Case discussion and proffered papers</p>	<p><b>Science Fair</b></p> <p>Hands-on interactive exhibits demonstrating ultrasound safety, bio effects and a range of phantoms and test objects. Opportunity to vote on 'what makes a good ultrasound image' <i>In association with the BMUS Safety Committee</i></p>	<p><b>Quiz and Closing Ceremony</b> <i>R. Moshy</i></p> <p>Light hearted quiz with prizes!</p>
<p><b>Physics</b> <i>P. Hoskins &amp; J. Browne</i> The curious case of the contrast microbubble <i>V. Sboros</i> Proffered papers</p>	<p><b>EFSUMB elastography guidelines</b> <i>D. Cosgrove</i></p>	

# Ultrasound 2012

## 10-12 December 2012

### Radiology & General Sonography



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DAY 1 10 December 2012	DAY 2 11 DECEMBER 2012	DAY 3 12 DECEMBER 2012
<p style="text-align: center;"><b>Liver Ultrasound</b> <i>A. Lim &amp; J. Pilcher</i></p> <p>New ultrasound techniques for the detection and characterisation of abdominal organs and focal liver lesions <i>T. Fischer</i></p> <p>Liver Doppler - when are they useful? <i>J. Pilcher</i></p> <p>Role of ultrasound in patients with chronic liver disease <i>A. Lim</i></p> <p>Proffered papers</p>	<p style="text-align: center;"><b>Musculoskeletal Ultrasound</b></p> <p>Groin hernias <i>D. Elias</i></p> <p>Soft tissue lumps and bumps. <i>R. Lalam</i></p> <p>Quick fire sessions:</p> <p>Achilles - what the clinician needs to know <i>A. Dunn</i></p> <p>Rotator cuff - what the clinician needs to know <i>L. King</i></p> <p>Synovitis - how I do it <i>L. Meacock</i></p> <p>Proffered papers</p>	<p style="text-align: center;"><b>Ultrasound education using simulators</b></p> <p>Writing a tutorial for learning essential ultrasound skills on the 'Ultrasim'. <i>D. Cole</i></p> <p>Teaching junior doctors obstetric ultrasound using the 'Ultrasim' <i>G. Masson</i></p> <p>Use of virtual reality simulation for transvaginal ultrasound scan training <i>N. Woodhead</i></p>
<p style="text-align: center;"><b>Paediatric Ultrasound</b> <i>K. McHugh &amp; J. Hughes</i></p> <p>Gynaecological paediatric ultrasound <i>J. Hughes</i></p> <p>Paediatric renal ultrasound <i>K. Park</i></p> <p>Ultrasound of vascular anomalies <i>A. Barnacle</i></p> <p>Case and Proffered papers</p>	<p style="text-align: center;"><b>Physics and clinical applications of elastography</b> <i>P. Hoskins &amp; P. Sidhu</i></p> <p>Technical aspects of elastography <i>M. Tanter</i></p> <p>Endoscopic ultrasound elastography <i>A. Saftoiu</i></p> <p>The EFSUMB guidelines on ultrasound elastography and Proffered papers</p>	<p style="text-align: center;"><b>Interventional Ultrasound</b> <i>S. Ryan and P. Sidhu</i></p> <p>Novel uses of ultrasound microbubble contrast in Interventional radiology <i>D. Huang</i></p> <p>Interventional ultrasound in musculoskeletal radiology <i>M. Ahmed</i></p> <p>Interventional ultrasound of the prostate and seminal vesicles <i>U. Patel</i></p> <p>Proffered papers</p>
<p style="text-align: center;"><b>Head and Neck</b> <i>R. Evans</i></p> <p>Practical tips to avoid pitfalls in the neck <i>N. Cozens</i></p> <p>Proffered papers and case discussions</p>	<p style="text-align: center;"><b>Donald MacVicar Brown Lecture</b> <i>Prof. G ter Haar</i></p> <p>Seek and Destroy: a revived role for ultrasound?</p>	<p style="text-align: center;"><b>Breast Workshop</b> <i>J. Waldron &amp; J. Yates</i></p> <p>An interactive workshop with demonstration, instruction and supervised practice in small groups.</p>
<p style="text-align: center;"><b>Management of the Thyroid nodule</b></p> <p>Introduction and overview <i>J. Smith</i></p> <p>Thyroid nodules and the endocrinologist <i>R. Ajjan</i></p> <p>Nodules, the solution? <i>R. Evans</i></p> <p>Proffered papers</p>	<p style="text-align: center;"><b>Bowel Ultrasound</b> <i>A. Lim &amp; D. Cosgrove</i></p> <p>Is Bowel ultrasound useful? <i>T. Higginson</i></p> <p>Ultrasound in the inflammatory bowel disease. <i>A. Plumb</i></p> <p>Proffered case &amp; paper</p>	<p style="text-align: center;"><b>Male Health</b> <i>C. Harvey</i></p> <p>Do we need MRI and/or CEUS in the diagnosis of prostate cancer? <i>H. Wijkstra</i></p> <p>Elastography and CEUS in focal testicular lesions <i>D. Huang</i></p> <p>Proffered papers</p>
<p style="text-align: center;"><b>Characterising liver lesions using ultrasound and MRI</b></p> <p><i>A. Lim &amp; M. Donofrio</i></p> <p>Imaging characteristics of benign liver lesions <i>S. Ryan</i></p> <p>Imaging characteristics of malignant liver lesions <i>M. Donofrio</i></p>	<p style="text-align: center;"><b>Perfusion Imaging: research and clinical applications</b></p> <p>Contrast Ultrasound Dispersion Imaging <i>H. Wijkstra</i></p> <p>Dynamic contrast enhanced ultrasound technique for the monitoring of chemotherapy of liver metastasis. <i>M. Averkiou</i></p> <p>Proffered papers</p>	<p style="text-align: center;"><b>Breast</b> <i>C. Lewis</i></p> <p>An introduction to breast ultrasound <i>C. Lewis</i></p> <p>US-guided interventional techniques of the breast and axilla Proffered papers</p>
<p style="text-align: center;"><b>Pancreas &amp; Abdominal 'Interesting Cases'</b> <i>P. Sidhu &amp; T. Fischer</i></p> <p>Ultrasound of the pancreas <i>M. Donofrio,</i></p> <p>Proffered case studies</p>	<p style="text-align: center;"><b>Science Fair</b></p> <p>Hands-on interactive exhibits demonstrating ultrasound safety, bio effects and a range of phantoms and test objects.</p>	<p style="text-align: center;"><b>Quiz and Closing Ceremony</b> <i>R. Moshy</i></p> <p>Light hearted quiz with prizes!</p>

# Ultrasound 2012

## 10-12 December 2012

### Vascular



DAY 1 10 December 2012	DAY 2 11 DECEMBER 2012	DAY 3 12 DECEMBER 2012
<p><b>Seven day working: Who, when and why?</b> <i>G. Stansby and D. Boxer</i></p> <p>The session includes presentations regarding the new DVT guidelines, implementation of 7 day working and implications for ultrasound departments. There will be an opportunity for discussion and debate for delegates.</p>	<p><b>Varicose Veins (In association with SVT)</b> <i>M. Bonfield &amp; S. Wolstenhulme</i> Patient positioning for varicose vein scanning <i>M. Bonfield</i> Hand-on patient positioning for varicose vein scanning <i>M. Bonfield &amp; B. Sarker</i> Varicose veins of pelvic origin—integrated diagnosis &amp; treatment pathway <i>K. Norse</i> Ultrasound guided endovenous laser</p>	<p style="text-align: center;"><b>Science Fair</b></p> <p>Hands-on interactive exhibits demonstrating ultrasound safety, bio effects and a range of phantoms and test objects. Opportunity to vote on 'what makes a good ultrasound image' <i>In association with the BMUS Safety Committee</i></p>
<p><b>Meet the expert Pitfalls of Scanning: where it all goes horribly wrong</b></p> <p><i>Tim Hartshorne, Vascular Sonographer and author of Vascular Ultrasound: How, why and when, shows that scanning can sometimes go awry even for the most experienced sonographers.</i></p> <p style="text-align: center;"><b>FULLY BOOKED!</b></p>	<p><b>The Changing Ultrasound Career Pathway - Is sonography in danger of being dumbed down?</b> <i>P. Parker</i></p> <p>Over these sessions 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.</p>	<p><b>Arterial 1 (In association with SVT)</b> <i>T. Gall and S. Wolstenhulme</i></p> <p>AV fistula Ultrasound mapping <i>S. Wolstenhulme</i> Hands-on Arterio-venous fistula mapping <i>B Sarker</i></p> <p>Proffered cases and papers</p>
<p style="text-align: center;"><b>Fetal Heart</b> Embryology <i>S. Goodburn</i> Cardiac Screening <i>E. Dyer</i> Prognosis of Cardiac Anomalies <i>P. Loughna</i> Proffered Papers</p>	<p style="text-align: center;"><b>Donald MacVicar Brown Lecture</b> <i>Prof. G ter Haar</i> Seek and Destroy: a revived role for ultrasound?</p>	<p style="text-align: center;"><b>BMUS</b></p> <p style="text-align: center;"><b>Annual General Meeting</b> BMUS members welcome</p>
<p><b>The future of ultrasound in medicine: preclinical research</b></p> <p>Functional ultrasound for neuroscience <i>M. Tanter</i> 'Of mice and men - advances in preclinical imaging' <i>C. Moran</i> Proffered papers</p>	<p><b>Perfusion Imaging: research and clinical applications</b> Contrast Ultrasound Dispersion Imaging <i>H. Wijkstra</i> Dynamic contrast enhanced ultrasound technique for the monitoring of chemotherapy of liver metastasis. <i>M. Averkiou</i> Proffered papers</p>	<p><b>Arterial II (In association with SVT)</b> <i>T. Hartshorne &amp; C. Deane</i></p> <p>Portable US—use in the vascular service <i>T. Hartshorne</i> The EFSUMB/WFUMB guidelines on contrast enhanced ultrasound <i>D. Cosgrove</i> Proffered Papers</p>
<p style="text-align: center;"><b>Physics</b> <i>P. Hoskins &amp; J. Browne</i></p> <p>The curious case of the contrast microbubble <i>V. Sboros</i> Proffered papers</p>	<p style="text-align: center;"><b>Young Investigators' Session</b></p> <p>Our young investigators battle it out to see who will represent BMUS at EUROSON 2013 in Stuttgart</p>	<p><b>What makes a good ultrasound image?</b> <i>T Evans</i></p> <p>A workstation will be set up throughout the conference for delegates to view pair of images and vote on what they consider the best. .</p>
<p><b>DVT Scanning</b> <i>B. Sarker</i> Integrated Training Package Pre-conference e-learning and Half day practical (3hrs)</p>		<p style="text-align: center;"><b>Ultrasound Quiz and Closing Ceremony</b> <i>R. Moshy</i> Light-hearted quiz with prizes!</p>

# Ultrasound 2012

## 10-12 December 2012

### Head & Neck

### Musculoskeletal Ultrasound



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DAY 1 10 December 2012	DAY 2 11 DECEMBER 2012	DAY 3 12 DECEMBER 2012
<b>Head and Neck</b> <i>R. Evans</i>  Practical tips to avoid pitfalls in the neck <i>N. Cozens</i>  Proffered papers and case discussions	<b>Donald MacVicar Brown Lecture</b> <i>Prof. G ter Haar</i>  Seek and Destroy: a revived role for ultrasound?	<b>Science Fair</b> Hands-on interactive exhibits demonstrating ultrasound safety, bio effects and a range of phantoms and test objects.  Opportunity to vote on 'what makes a good ultrasound image' <i>In association with the BMUS Safety Committee</i>
<b>Head and neck hands-on workshop</b> <i>(R. Evans and R. Rhys)</i>  This workshop encompasses scanning techniques in normal anatomy examining the salivary glands, thyroid and lymph nodes. <b>Limited places!</b>	<b>Musculoskeletal Ultrasound</b>  Groin hernias <i>D. Elias</i> Soft Tissue lumps and bumps <i>R. Lalam</i> Soft tissue lumps and bumps. <i>R. Lalam</i>	<b>BMUS</b>  <b>Annual General Meeting</b> BMUS members welcome
<b>Management of the Thyroid nodule</b>  Introduction and overview <i>J. Smith</i> Thyroid nodules and the endocrinologist <i>R. Ajjan</i> Nodules, the solution? <i>R. Evans</i>  Proffered papers	<b>Quick fire sessions:</b>  Achilles - what the clinician needs to know <i>A. Dunn</i> Rotator cuff - what the clinician needs to know <i>L. King</i> Synovitis - how I do it  Proffered papers	<b>What makes a good ultrasound image?</b> <i>T. Evans</i>  A workstation will be set up throughout the conference for delegates to view pair of images and vote on what they consider the best. Feedback and discussion of the results is provided in this session.
<b>Poster session and Welcome reception</b>		<b>Quiz and Closing Ceremony</b> <i>R. Moshy</i> Light-hearted quiz with prizes!

### Under the spotlight:

#### Young Investigator Award 2012

Day 2 - 11th December 2012 between 14:30 - 15:30

Six young investigators (under the age of 35) will battle it out in front of judges in X-factor style.

The winner will receive the prestigious BMUS Young Investigator Award for 2012 and will represent the UK at EUROSON 2013 with the opportunity to take home €1000.

Come along to find out who wins this year's Young Investigator Award!



**EFSUMB**



# Ultrasound 2012 10-12 December 2012 Veterinary



## 11 December 2012 - Tuesday day 2

### Registration

#### Olympic Special—Ultrasound at the London 2012 Olympics

*D. Elias & J. Dukes-McEwan*

Ultrasound of upper limb sporting injuries *A. Dunn*

Ultrasound of lower limb sporting injuries *L. King*

Use of Ultrasound in diagnosis of sporting injuries in the performance horse *S. Boys-Smith*

#### Interventional veterinary ultrasound workshop **Limited Places!**

**How and when to stick it**

*T. Trevail & Faculty*

#### Donald MacVicar Brown Lecture

*Prof. G ter Haar*

Seek and Destroy: a revived role for ultrasound?

#### Veterinary ultrasound imaging - Interactive case discussions

Getting to the guts of it: Gastrointestinal Ultrasound Imaging *T. Trevail*

Interactive case discussions

#### Practical scanning workshop with dogs **Limited places!**

*A. King & J. Dukes-McEwan*

### Conference Dinner and Awards

**Local Organiser:** Jörg Niehoegen  
**Tutors:** Tim Trevail, Alison King,  
Jo-Dukes-McEwan, Jörg Niehöegen &  
colleagues.



**25% Off**

Bring your well-behaved, friendly dog for scanning and get 25% off your registration fee.

For more information contact  
Jo Dukes-McEwan at  
[J.Dukes-Mcewan@liverpool.ac.uk](mailto:J.Dukes-Mcewan@liverpool.ac.uk)



**BMUS**



## Ultra Post

*Promoting ultrasound for  
healthcare professionals*

**Coming Soon in 2013!**

**Ultrapost** - A one-page e-newsletter with the latest ultrasound research news, articles and BMUS society news delivered to your inbox each month.

Ultrapost will be sent to all our members, non-members and to every ultrasound practicing healthcare professional for free.

If you are not a BMUS member, you can sign-up to receive this newsletter and other BMUS updates by visiting our website [www.bmus.org](http://www.bmus.org) and clicking the sign up option on the homepage.

If you have any suggestions or comments please email Sruthi at [Sruthi@bmus.org](mailto:Sruthi@bmus.org)

In case you temporarily felt engulfed in warm and fuzziness in the company of your ultrasound family-

The nights are drawing in, it's getting chilly and damp, gas bills have just shot up, pensions are non-existent or will be rendered generally useless by the time most of us need them, shops have the audacity to bombard us with Christmas jingles from October...

Forget all that- here's a picture to warm the cockles and help you banish the winter blues. Awwwwww.



## Sonographers

### Part-time / Full-time/Bank posts

Nationwide

(Greater Manchester, North of Tyne, Berkshire, Buckinghamshire, Tower Hamlets, Newham, South Staffordshire, Milton Keynes/Northamptonshire, Kent and Medway, Devon, Torbay and Plymouth)

Salary Equivalent to Band 8a, plus travel allowance and healthcare benefits of up to approximately £4,500 or alternatively as part time staff; £35 - 40 per hour (dependent on experience).

**Physiological Measurements Ltd** is a fast growing and successful provider of Community Diagnostics services.

We are looking for experienced individuals who are enthusiastic and highly motivated to join our Consultant Radiologist led Community Diagnostics teams.

You will have HPC registration and hold an appropriate post graduate qualification in medical ultrasound. You will work as part of a multidisciplinary team with the capability of autonomous practice and independent Advanced Practitioner reporting. You will be expected to perform ultrasound examinations including general abdominal, pelvic, TV and superficial imaging. There are also opportunities available for individuals competent and qualified to perform MSK and advanced Vascular ultrasound.

You will be expected to support both the service and staff in maintaining and developing a high quality service provision, whilst delivering clinical excellence.

### Superintendent Radiographer (Regional)

Opportunities Nationwide

Salary Equivalent to Band 8b, plus travel allowance and healthcare benefits of up to approximately £4,500 or alternatively as part time staff; £40 - 45 per hour (dependent on experience).

We have a number of opportunities available for a Regional Superintendent Radiographer to oversee the clinical operations of a number of Community Non Obstetric Ultrasound Services across the UK.

If you would like to find out more about these positions, please contact us.

**For further information please contact Sian Taylor;**  
[s.taylor@pml.tel](mailto:s.taylor@pml.tel) Tel: 0870 246 1888  
**To apply please send a CV and covering letter to Sian Taylor**

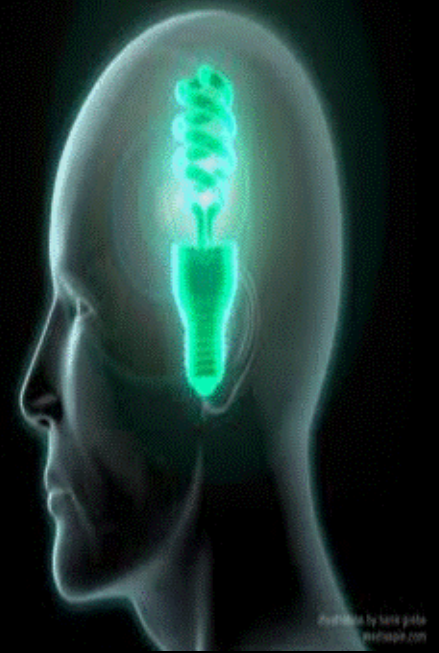
[www.physiologicalmeasurements.com](http://www.physiologicalmeasurements.com)



Physiological  
Measurements Ltd.

**Provider of diagnostic investigations  
in hospital & community settings**

# Dates for your diary



## November

**30th** - Deadline for Ultrasound 2012 advance registration

## December

**10th** - BMUS DVT integrated training day, Telford

**10th -12th** **Ultrasound 2012, Telford**

**12th** - BMUS AGM, Telford

## February

**5th** – Gynaecology, Peninsula Radiology Academy, Plymouth

## March

**9th** – Antenatal Cleft study day (with CLAPA, ARC,) London

## April

**9<sup>th</sup>** – 'A stab in the dark – interventional and research opportunities for sonographers', Centre for Life, Newcastle



Promoting ultrasound  
for healthcare  
professionals