

BMUS

53rd Annual Scientific Meeting of the British Medical Ultrasound Society

Call for Papers and Preliminary Programme
Abstract submission deadline – Sunday 31st July 2022



For further information
www.bmus.org

Ultrasound 2022

Leading Ultrasound into the future

6th-8th December 2022



I am delighted to be the chair of the Scientific Organising Committee for the 2022 ASM which will be held in the beautiful Cardiff City Hall.

It has been a challenging couple of years for everyone but especially those working in front line healthcare. Hopefully, we are starting to emerge from the worst of it and looking forwards rather than back. This is why the theme for this year's ASM is "BMUS- Leading ultrasound into the future". To this end we are thinking about the changing landscape of ultrasound through technology, education and guidelines and our role in this.

Firstly, I would like to encourage everyone to put in an abstract for this year's event. We want to come back to face to face meetings with a bang and that means you all have to do your part. Service developments, audits, well-being projects and research has all been going on up and down the country during the last few years and we want to hear all about it. Remember anyone with an accepted abstract gets discounted registration.

Also, I would like to remind everyone who is a registered AHP that they have £1000 personal training budget direct from the DOH that has to be spent by 2023 so there shouldn't be an issue getting funding to attend. I'm guessing most people haven't had a chance to spend theirs over the last 2 years.

Finally, I must thank *Peter Cantin, Mark Charnock, Trish Chudleigh, Tanya Ewen, Gail Ter Haar, Terry Humphreys, Bob Jarman, Catherine Kirkpatrick, Jeanette Kraft, Angie Lloyd Jones, Carmel Moran, Amanda Parry, Alison Smith, Rita Philips, Ruth Reeve, and Barry Ward* who are all beavering away to bring what promises to be an excellent programme.

Ben Stenberg

Chair Scientific Organising Committee

Abstract Submission Timeline

31st July 2022 – Submission Deadline

This date is the deadline for Abstracts and Sonographer of the Year. Both should be submitted via the website

31st August – Abstract Judging

All stream leads will have completed their assessments of each submitted abstract

9th September – Author Notification

We aim to notify all abstract authors by this date if they have been successful

30th September – Early Bird Registration Closes

15th October – Successful abstract authors should register by this date.

To present your work there is a fee of **£130**. This covers a single day's attendance at the conference.

Please note all abstracts selected to be presented need to either register to attend at least one day or pay the presentation fee.



Day 1 - Tuesday 6th December 2022

PLENARY 1	PLENARY 2	PLENARY 3	PLENARY 4	PRACTICAL
<p>General Medical and Paediatrics Ultrasound in Bowel Disease</p> <p>This session intends on providing an overview on leading ways for the use of ultrasound in a variety of settings for bowel pathology.</p> <ul style="list-style-type: none"> • Demonstrate how ultrasound can help in the diagnosis of children with GI symptoms • Guide to using ultrasound in patients with IBD • Guide to setting up a bowel ultrasound service in radiology departments • Overview of ultrasound in bowel cancer 	<p>Professional Issues</p> <p>Professional Issues sessions will focus on Maximising Ultrasound Services. It will explore Preceptorship and Capability Development and how it could become successfully embedded within departments. It will examine how department leaders can support more of their staff to achieve true Advanced Practitioner and Consultant level. In addition the session will examine the practicalities of workload in addressing Quantity Vs Quality – how do you decline the unjustified examination?</p>	<p>Ultrasound Physics New and improved technologies for medical ultrasound imagings</p> <p>Over the last few years, medical ultrasound imaging has continued to develop at an astonishing rate, with exciting new technologies being introduced by start-up companies, and established technologies being further refined by the major manufacturers. This session explores some of these technologies, and explains how sonographers, radiologists and other clinicians can make use of them in their day-to-day scanning.</p>	<p>Student and Trainee Session</p> <p>The aim of this BMUS training focused day is to enhance the students', trainees' and newly qualified sonographers' knowledge and understanding of the professional issues surrounding ultrasound practice to prepare them for their careers in the rapidly changing landscape of ultrasound.</p>	
<p>General Medical and Paediatrics Ultrasound in Renal Disease</p> <p>This session provides insights into how ultrasound is used in diagnosing and managing renal disease, looking at advancing techniques and technology.</p> <ul style="list-style-type: none"> • Guide to ultrasound imaging of cystic renal disease in children and how to differentiate varying presentations. • Guide to the types of renal diseases evaluated with ultrasound • How CEUS can be used as a first line investigation for renal cysts 	<p>BMUS Debate</p> <p>The magnificent debating chamber of Cardiff City Hall provides an outstanding and perfect venue for the return of the BMUS debate.</p>	<p>Ultrasound Physics The old and the new – the past, present and future of ultrasound imaging</p> <p>Since the first ultrasonic devices were invented, over a hundred years ago, ultrasound technology has become the bedrock of an extremely wide range of medical and non-medical applications. This session looks at some of these applications, and considers what additional medical information may be available to sonographers in the very near future.</p>	<p>Call for Papers</p> <p>As a student or trainee, you may have been involved with some interesting initiatives of clinical application for example evaluated new technology, explored professional issues regarding sonography or even seen some unusual cases.</p> <p>The findings from MSc projects, audits or service evaluations are also important research activities for dissemination to the wider audience. The BMUS Training Stream is an ideal forum for you to present your work and share good practice with your peers. This is also a very good opportunity to develop and enhance your presentation skills in a safe and supportive environment and get feedback if you intend to publish your work.</p> <p>Supervisors, mentors and managers are asked to actively encourage and support their students and trainees to proffer papers for this conference.</p>	<p>Bowel Ultrasound Master Class</p> <p>Bowel ultrasound is increasingly being desired for many radiology and gastroenterology departments. This workshop intends to increase ultrasound practitioners confidence in scanning and evaluating the small bowel, appendix and colon on ultrasound. Expert faculty will guide participants through the technique of bowel ultrasound with hands on experience in small groups with helpful hints and tips.</p>
<p>General Medical and Paediatrics Ultrasound in Liver Disease</p> <p>This session provides insights into how developing technology and reporting is moving ultrasound of liver disease into the future.</p> <ul style="list-style-type: none"> • How advanced ultrasound imaging is used in paediatric liver disease • The role of ultrasound in screening and surveillance of liver disease. • Radiological treatment for liver lesions, current practice and future developments 	<p>Professional Issues</p> <p>As BMUS looks to guide ultrasound and its practitioners into the future, we address How Does Ultrasound Move Forwards in a World Without Regulation? Regulation and the protected title of 'Sonographer' has been the long term goal of professional ultrasound bodies in the UK for many years, but where are we now and what does the future look like if the ambition of regulation cannot be achieved</p>	<p>Ultrasound Physics Imaging safely and effectively using modern ultrasound scanners</p> <p>As our understanding of subtle bioeffects improves and additional imaging features are integrated into new ultrasound equipment, it is vital that users have access to this information and are able to apply it during their routine daily scanning. This session provides an overview of our current knowledge of ultrasound safety, and shows how sonographers, radiologists and obstetricians can scan safely and effectively using the most up-to-date devices.</p>		<p>Obstetrics Workshop</p> <p>Sign up for a 30 minute guided simulation session during which you will work through cases looking at:</p> <ul style="list-style-type: none"> • The implications of caliper placement on measurement of the posterior horn • Changing from ellipse to diameters in assessing fetal growth and EFW • Deciding which Doppler trace is 'best'

16.00 Donald MacVicar Brown Keynote Lecture

Welcome Reception 17.00-18.30

Day 2 - Wednesday 7th December 2022

PLENARY 1	PLENARY 2	PLENARY 3	PLENARY 4	PRACTICAL
<p>Obstetrics 1 Imaging across the trimesters – AI, biochemistry and genomics</p> <ul style="list-style-type: none"> • NT, anatomy, NIPT, exome sequencing – where is 1st trimester screening going? • Artificial intelligence and fetal biometry • Biochemical markers, imaging and outcomes 	<p>Head and Neck</p> <p>There has been a hiatus in the presence of head and neck ultrasound on the BMUS programme but it's back and with aplomb! The head and neck sessions will as always aim to provide innovative and highly educational content to expand the knowledge of the ultrasound practitioner. Ultrasound of the Oral Cavity and Pharynx – is it something we all should be doing? Head and Neck Masses – what are they and what should I be doing with them? Do ultrasound practitioners know what happens to their patients after the scan? This session will look at the prognosis and management of thyroid cancer following diagnosis and the importance of ultrasound in the journey. With innovations and advances in practice the world of head and neck ultrasound is always moving forwards and evolving, these sessions will aim to take BMUS delegates on that journey.</p>	<p>Young Investigator</p> <p>During this session 6 short-listed oral papers from submitters under the age of 39 will battle it out to win the title of BMUS Young Investigator 2022 and the prize of representing the UK at the EUROSON 2023 Congress in Riga, Latvia. Further details can be found on the awards page.</p>	<p>ThUNDDAR Session</p> <p>Information on this stream will be available at a later date</p>	<p>DVT Lower Limb</p> <p>Upper Limb scanning technique/anatomy</p>
<p>Obstetrics 2 Putting guidelines into perspective – how many do we need?</p> <ul style="list-style-type: none"> • The pitfalls of uterine artery Dopplers – a practical guide • Capacity versus demand • Are the KPIs for SBLv2 working? 	<p>MSK 1 Guidelines and pathways in MSK Ultrasound</p> <p>The use of guidelines and clinical pathways are fundamental in the diagnosis and management of patients. This session looks at specific and complex areas of musculoskeletal Ultrasound, including pediatrics, trauma and adult groin/hip. Presenters have extensive experience of using Ultrasound in their fields and will discuss guidelines, Ultrasound features and management of these patients.</p>	<p>Extreme Ultrasound (PoCUS) Ultrasound taken to the Extreme</p> <p>This session is to look at the use of ultrasound in some of the more extreme settings. As ultrasound has grown as a modality it has exceeded the boundaries of Radiology and Obstetric departments or even hospital environments and now gets used in some of the most extreme environments on (and off) earth. We will look at examples of people using ultrasound on the battleground, in pachyderm programmes, non-medical uses and even in space.</p>	<p>ThUNDDAR Session</p> <p>Information on this stream will be available at a later date</p>	<p>DVT Upper Limb</p> <p>Lower Limb scanning technique/anatomy</p>
<p>Obstetrics 3 Educating sonographers, the profession and the service – time for a rethink?</p> <ul style="list-style-type: none"> • Those first two sentences – what, how and when. Getting it right when there's a problem • Limbs, hearts, images, screening and barristers • An obstetric sonographer career pathway. A vision through rose tinted glasses 	<p>MSK 2 Emerging roles in MSK Ultrasound</p> <p>Musculoskeletal Ultrasound is performed by a variety of healthcare practitioners, not just in Radiology and within a dedicated scope of practice. Specific roles have been established for these practitioners who deliver specialised clinical services and interventions. Speakers will give their insight of these roles, service delivery and the use of Ultrasound in their practice.</p>	<p>PoCUS 2 Education, training and governance – how is PoCUS doing?</p> <p>PoCUS training is increasingly being incorporated into many curricula, so potential numbers of trainees are likely to increase significantly. What innovations in education, training and assessments are emerging, and can we deliver this with sustained clinical pressures? Once competent, are we really the finished articles or do we still need to be supported? How can we use digital technology to record our PoCUS activity and governance around keeping my images/clips?</p>	<p>ThUNDDAR Session</p> <p>Information on this stream will be available at a later date.</p>	<p>Head and Neck Practical</p> <p>Following feedback from recent years, the ASM in Cardiff sees the return of the popular 'hands on' Head and Neck Workshop. Expert faculty will provide demonstrations and anatomy of the '7 sweep neck' technique breaking into smaller groups to consolidate learning and have time to ask questions.</p>
<p>Axrem Debate The Future of Ultrasound – The Industry Perspective'</p> <p>More details to be available at a later date</p>	<p>MSK 2 Emerging roles in MSK Ultrasound</p> <p>Musculoskeletal Ultrasound is performed by a variety of healthcare practitioners, not just in Radiology and within a dedicated scope of practice. Specific roles have been established for these practitioners who deliver specialised clinical services and interventions. Speakers will give their insight of these roles, service delivery and the use of Ultrasound in their practice.</p>	<p>PoCUS 3 The clinical application of PoCUS</p> <p>PoCUS practice continues to evolve, but does it make a difference and improve patient care, or does it cause extra workload for everyone else? What are the new contemporary applications of PoCUS, especially in haemodynamics. Many modern PoCUS machines come with smart features but is this a hindrance or blessing?</p>	<p>ThUNDDAR Session</p> <p>Information on this stream will be available at a later date.</p>	

Winter Ball and Awards Ceremony

DAY 3 - Thursday 8th December 2022

PLENARY 1	PLENARY 2	PLENARY 3	PLENARY 4	PRACTICAL
<p>Gynaecology and Early Pregnancy? Multiple pregnancy – there's more to it than a couple of gestation sacs</p> <ul style="list-style-type: none"> • Twinning in early pregnancy - understanding the embryology • Twinning in early pregnancy – ultrasound (tips and pitfalls) • 'Early pregnancy communication – are we getting it right?' 	<p>Intervention</p> <p>Image guidance is becoming standard practice for most interventional procedures. Ultrasound has a crucial role in ensuring that many interventional procedures are undertaken safely and effectively. This session will look at some of the applications where ultrasound image guidance adds value. It will also examine the scope of practice and governance frameworks for those looking to extend their practice into ultrasound guided interventions.</p>	<p>Vascular 1</p> <p>The first session will look at how duplex ultrasound is moving into the future, including the current grading criteria for carotid duplex along a potentially new topic around the uncertainty of measurements in vascular ultrasound. The use of 3D ultrasound in the assessment of carotid plaque.</p> <p>This session will also cover the topic of venous stenting and the assessment of venous stents, the pitfalls in assessing the venous system post venous ablation, and the role of venous duplex in the assessment of leg ulcers.</p>	<p>Veterinary</p> <ol style="list-style-type: none"> 1. Cover a range of interesting topics and case studies which promote the use of diagnostic ultrasound as a necessary adjunct to effective patient management. 2. Continue to promote high standards of clinical ultrasound practice and diagnostic confidence by inviting thought-provoking speakers from a multitude of clinical veterinary ultrasound backgrounds, including expert veterinary specialists, to share their experiences and invaluable clinical knowledge. 3. Empower multi-disciplinary professionals from both the Veterinary and Medical professions to work better together, improving the quality and standards of small animal ultrasound practice. 4. Provide an overview of ultrasound governance – how the veterinary field can benefit from lessons learnt within the NHS 5. Abdominal Point of Care and Basic Cardiac Ultrasound – Those all-important considerations for proper ultrasound practice! 	<p>MSK Workshop 1 and 2</p> <p>The practical workshops are aimed at those practitioners with MSK Ultrasound experience, wishing to improve their knowledge and skills in advanced techniques. The areas covered include shoulder and elbow, hip/groin, foot and ankle, complex hand and Ultrasound guided MSK intervention. Delegates will receive maximum benefit from small group tutoring and lots of hands on practice with an experienced Physiotherapist, MSK Sonographers and Radiologist facilitating the stations.</p>
<p>Gynaecology Time to Embrace New Technologies?</p> <ul style="list-style-type: none"> • Fertility scan – what should we be looking for? • 3D ultrasound scans – how to do and classify uterine congenital anomalies • Addressing the skills of the gynaecologist sonographer – time for a rethink? 	<p>AI Implementation Artificial Intelligence in Ultrasound</p> <p>This session is to look at the use of artificial intelligence in ultrasound. We are surrounded by artificial intelligence in our daily life and these principles are making their way into medicine. Radiology and ultrasound are prime candidates for the integration of AI deep learning as it relies on high volume, pattern recognition and risk stratification. It is almost certainly on the ultrasound machine you are already using and you will likely already be using it on a daily basis whether you are aware of it or not but where will it go from here?</p>	<p>Vascular 2</p> <p>This session look at the role of vascular ultrasound in assessing pathologies or the SMA and sciatic artery. Whether the iliac and calf veins should be scanned routinely as part of the assessment for deep vein thrombosis and the pitfalls in assessing the DVT patient. Also the role of vascular ultrasound in endo-AVF screening, creation and surveillance</p>		
<p>Gynaecology Master Class in Endometriosis</p> <ul style="list-style-type: none"> • Diagnosing endometriosis what this means for the patient • 'Reconsidering the ultrasound diagnosis of endometriosis' • 'What the clinician needs to know – a Gynaecologist's perspective' 	<p>MSK 3 Specialised MSK ultrasound</p> <p>This session is focused on specific areas of complex MSK Ultrasound and is aimed at healthcare professionals who wish to broaden their knowledge and practice. Speakers in this session reflect the diversity of professionals using Ultrasound in sports injuries, Sarcoma MDT and chronic pain.</p>	<p>Professional Issues Collaborations and Innovations – How to Take Ultrasound into the Future.</p> <p>Collaboration and innovation takes many forms within ultrasound and BMUS explores how these can be maximised to ensure high value to all stakeholders and the profession. This session will explore the safety of practitioners of the in an ever increasing litigious world and how understanding the pearls and pitfall of medico legal issues could make you a better, safer practitioner of the future. Is the future here now? We consider the use of artificial intelligence and the ultrasound practitioner perceptions and attitudes towards it, is this collaboration with the robots a step too far?</p>		

Conference End



Sonographer of the Year Award 2022

BMUS are delighted to be continuing the Sonographer of the Year Award for 2022. The award is to celebrate the outstanding contributions made by Sonographers to the field of Medical Ultrasound, and BMUS requests nominations for those who deserve to be recognised for making a difference in their profession. Submissions should be made via the BMUS website, the deadline for nominations is 31st August. Suitable candidates should:

- Champion quality care and patient safety placing it at the heart of service delivery
- Share and develop visions of excellence in the field of ultrasound
- Support peers and colleagues with positivity, empathy and enthusiasm
- An inspirational member of the team, with commitment to Sonography and ultrasound, and Continuing Professional Development

The winner will be announced at the Ultrasound Annual Scientific Meeting 2022 Winter Ball being held on 7th December in Cardiff.

Reasons For Presenting Your Research at Ultrasound 2022

- Successful paper/poster abstracts will be published as an online supplement with the Ultrasound journal and will be listed in PubMed Central
- The successful paper/poster abstracts will be published in the final printed programme
- The opportunity to win awards and prizes for the best poster or oral presentation
- Highly discounted delegate fees to attend Ultrasound 2022 are offered to successful presenters

- Presenters will have the opportunity to have their research published in full in the BMUS journal, Ultrasound
- Oral presentations from presenters under 39 years of age will be automatically considered for the prestigious BMUS Young Investigator Session
- Each presenter will receive a certificate from BMUS stating that their research, poster or case study was presented at the meeting

Guidelines To Writing An Abstract

- The abstract should be structured with Objective/Aim, Method, Results and Conclusion
- The text of the abstract should be no more than 300 words
- The abstract text should be submitted through the online form and not uploaded as a written document
- Only supporting documents should be uploaded with the abstract i.e. images, graphs, tables, reference list
- The abstract process is anonymous, please ensure that any supporting documents attached do NOT identify the authors
- Ask a colleague to check over your abstract for typos and spelling errors. What you write for your abstract is what will be published
- Ensure all authors are accurately entered including their institution in full.

Abstracts not following these guidelines maybe declined

BMUS Awards 2022

We are delighted to call for abstract submissions to be presented as a Poster, Oral or Case Study at Ultrasound 2022.

Successful submissions will be automatically entered for our prestigious awards.

Best Oral Presentation

Accepted paper presentations are judged in terms of both scientific content and quality of presentation. The aim of the award is to support activities in the field of medical ultrasound, which advance the work or personal development of the winner.

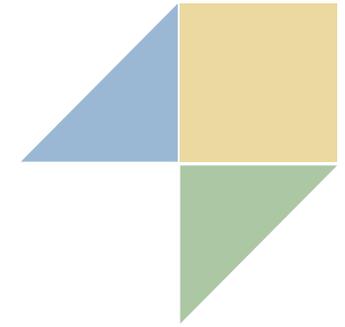
The winning presenters will be encouraged to submit their work for publication in the BMUS journal, Ultrasound, and to provide a short report showing how the award was used. The awards are decided once the conference has been concluded, winners will be advised in January 2023 and will be announced in the BMUS Newsletter 2023.

1st Prize

£200 plus complimentary BMUS 2023 membership.

Runner up

£50 plus complimentary BMUS 2023 membership.



Poster Awards

The Poster Awards are presented to the best Poster in the categories of:

- Scientific Poster
- Case Report Poster
- Clinical Poster

Judged by the 2022 Scientific Organising Committee on both content and presentation style. The winning Poster Presentations will be announced at the Winter Ball on Wednesday 7th December.

1st Prize

£100 plus complimentary BMUS 2023 membership for each category.

BMUS Young Investigator Award

Chosen Oral submissions from presenters under 39 years of age, will be invited to take part in this session.

The winning presentation, selected by an esteemed panel of judges, will be awarded the prestigious title of 'BMUS Young Investigator 2022'. The winner of this award will be announced at the Winter Ball on Wednesday 7th December.

Prize

The winner will represent the UK at the EUROSON 2023 Congress in Riga, Latvia with the opportunity to win the 'European Young Investigator' title and one of the two possible cash prizes totalling €3000.

BMUS Student Award

The winning presentation from the Student and Trainee Session will be awarded the student prize. The winner of this award will be announced at the Winter Ball on Wednesday 7th December.

Prize

Certificate and £25 voucher



Join us to celebrate
**BMUS Winter Ball
and Awards**



Assembly Room, City Hall, Cardiff

Wednesday 7th December 2022

Tickets are priced at **£39.90**

Please register at the time of booking your conference delegate place for the awards evening as well as some great entertainment