



## OUTREACH SPECIAL



### Welcome to ECHOES

*In this edition we focus on ultrasound outreach and how WFUMB is working to achieve its mission statement 'to bring sustainable ultrasound programs to the underserved area of the world to improve global healthcare through collaboration, communication and education'.*

The WFUMB Centres of Education continue to expand, with Vietnam and Albania being two new additions so far this year. Our CoEs range from basic to highly advanced teachings and we encourage you to look at the latest courses and news by clicking on the relevant links on the WFUMB website.

Following a November 2018 course in Arba Minch, Ethiopia, Australian sonographer Peter Coombs has

volunteered his time and expertise and returned for six months to continue the training of local staff. His insightful account of medical life in this area can be followed via his Blog on our website.

Later in this issue Christian Nolsøe gives a summary of his very productive presidential term and we have a luminary interview with Giovanni Cerri, past WFUMB president from FLAUS.

There are also reports from the education and publications teams

**The WFUMB 2019 in Melbourne Australia, hosted by ASUM, is fast approaching. This is the final chance to register for what will be the most comprehensive ultrasound conference of the year.**

*Susan Westerway PhD  
Chair WFUMB Communications*



## WFUMB NEWS: Newest COE's

### VSUM

**The Vietnamese Society of Ultrasound in Medicine (VSUM) became the 13th WFUMB Centre of Education (COE) in January 2019 under the leadership of Quan Phuoc Bao Nguyen.**

With the aim of improving skills and knowledge for doctors in ultrasound, VSUM was established in 2016 and is conducting annual congresses, regular conferences as well as

providing online learning materials for Vietnamese doctors. An impressive line up of courses can be found on the WFUMB website.

A total of 15 WFUMB Executive Bureau and Administrative Councillors were invited to give presentations at their annual congress in January attended by 400 Vietnamese doctors in Hanoi in January.



*At a special signing ceremony VSUM was welcomed as the 13th WFUMB COE.*



## FEDERATION REPORTS: AFSUMB Update

**World Federation for Ultrasound in Medicine and Biology [WFUMB] established its First Center of Education [COE] in Dhaka in 2004.**

The 22nd WFUMB COE Workshop was held at the NINMAS Auditorium, Bangabandhu Sheikh Mujib Medical University, Shahbagh, Dhaka. The 17th AFSUMB Workshop was held on 1 & 2 March 2019 along with the WFUMB COE Workshop.

Prof. S. H. Kim-WFUMB President Elect, Prof. W. J. Lee-AFSUMB President, Prof. Y. L. Wan-AFSUMB President Elect, Prof. Kanu Bala-AFSUMB Constitution Committee Chairman, Prof. K. Y. Leung-AFSUMB Education Committee Chairman, Prof. S. Gokhale-AFSUMB Education Committee Member, Prof. Sien-Sing Yang-AFSUMB Member joined the workshops as Resource Personnel.

*# of AFSUMB members: 19,686  
Prepared by secretary and Administrative Councilor of WFUMB: Iwaki Akiyama*

18th AFSUMB Workshop will be held at Novotel Mangga Dua Square Jakarta, Indonesia 29-30 November, 2019. Chairman of the organizing committee is Dr. Daniel Makes and the secretary is Dr. Harjanto Sidharta. The 14th AFSUMB Congress will be held in Beijing, China, 2020.







## Message from the WFUMB Student Education Task Force WFUMB Medical Student Network Group

Eventually, all future physicians will be trained to use ultrasound but it will take considerable time. Currently, medical students are being trained but the level of training is varied between different medical schools with a few having it fully integrated in all years of medical school, but most having only some integration. WFUMB is forming a worldwide Group for Medical Students where they can learn and share with other medical students and educators with a interest in ultrasound. An invitation for Medical Students to join the Group has been posted through Social Media and also on the WFUMB website ([www.wfumb.org](http://www.wfumb.org)).

For this project to be successful each of the 6 member Federations that comprise WFUMB need to spread the invitations extensively within their areas. Having a vibrant Community of Medical Students will be an important addition to the WFUMB Family and become a venue to spread the value of ultrasound throughout medical schools worldwide.

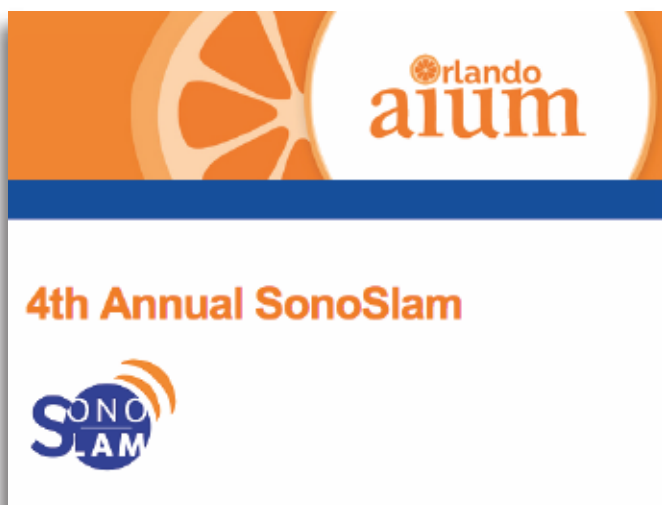
Please share the postcard invitation website below with your local Medical Students:

<https://www.dropbox.com/s/03484ybd21g8cx1/Postcard.pdf?dl=0>



A very important community that needs to be part of the WFUMB Medical Student Network Group is a Community of US Educators. We are inviting all US Educators to join: <https://wfumb.info/educator-group-application/>

At the recent 2019 Annual AIUM Meeting a very successful all day 4th SonoSlam was held during which 24 three member USA medical student teams competed. If our Affiliate Federations could hold a Medical Student SonoSlam like competition at their annual meetings, it would be possible in the future to hold at our World Congresses a World Cup where the best 2-3 medical student teams from each Federation could compete. This could be a byproduct of a vibrant WFUMB Medical Student Network Group.





### **WFUMB2019**

The WFUMB2019 World Congress in Ultrasound is only 8 weeks away! The Australasian Society of Ultrasound in Medicine (ASUM) is hosting this high quality scientific meeting in Melbourne September 6th - 9th 2019. The Scientific Committee has put together an incredibly strong multi-disciplinary world class program encompassing all aspects of ultrasound. Go to the link [www.wfumb2019.org](http://www.wfumb2019.org) to feast on the vast array of topics covered by our own Australian and New Zealand experts as well as our International luminaries. If you have registered then congratulations; if you are still to register then what are you waiting for? **Registrations can be made via [www.wfumb2019.org](http://www.wfumb2019.org)** - see you there!

### **AJUM**

The Australasian Journal of Ultrasound in Medicine (AJUM) is a multi-disciplinary journal which showcases "How to.....", "Systematic pictorial approaches to common conditions" and team based publications. It has an excellent reputation in international advocacy and international guideline delivery. Having paired up with the publisher Wiley, the AJUM continues to improve its visibility both nationally and internationally. 70% of readers are now coming from 137 countries outside Australasia; the AJUM truly does have a global readership. The journal recorded over 40,000 full-text article downloads in 2018 and is on track to do even better in 2019.

The AJUM is available in 4,390 institutions worldwide, listed in EMBASE and is available in 7,669 Research4life libraries.

We have increased our international editorial board membership to include members from the United Kingdom, United States of America, Europe and Hong Kong. Through the diligent work of our internationals and local editorial board members, we have not only increased the throughput of submitted manuscripts but also increased our rejection rate; a critical step in the lead up to our MEDLINE application in November 2019.

If you have original research, systematic reviews or even a "How to....." article, please submit your manuscripts to the AJUM online. These "How to....." articles are highly downloaded and made freely available through our publisher Wiley for our national and international audience.

### **ASUM Member News**

ASUM regularly recognises the outstanding work provided to the wider ultrasound community. Ron Benzie, well known to the WFUMB community for his contribution to ultrasound globally was honoured with a life membership to ASUM.



### **Education**

An outcome-based approach to medical education has been widely adopted in Australia. ASUM is committed to ensuring that the programs delivered by the Society are contemporary and reflective of best practice. 2018-2019 has seen a review of the Diploma of Diagnostic Ultrasound (DDU) and Certificate of Clinician Performed Ultrasound (CCPU) assessments, under the guidance of the Australian Council of Education and Research (ACER).



### Education continued ....

Many members contributed to the widespread consultation process expressing a desire and commitment to ASUM to maintain a high standard of education, focussed on patient care to members.

The education committees and associated supervisors and examiners continue to work hard to assist the Council deliver on the strategic objectives of the Society. ASUM is greatly appreciative of those members who continue to make significant contributions of their time and expertise to support the society and the many thousands of members who have studied or are currently studying programs with ASUM.

### Outreach

ASUM Outreach has concentrated on developing strategies and ensuring compliance with Australian regulators for charities, as we make plans for future Outreach work. With a focus on delivering to our local community a contingent of volunteers headed to Broome to support training for the Kimberley Aboriginal Medical Service.



In collaboration with Radiology Across Borders, ASUM Outreach supported the addition of a highly trained sonographer as part of a multidisciplinary team providing musculoskeletal ultrasound training in Cambodia. A full report on both these opportunities can be found on our website <https://www.asum.com.au/asum-outreach>.



### Events

Our annual conference in New Zealand was held in Tauranga in May 2019. This was a great success with all specialties of ultrasound covered including new research opening up discussion on protocols and critical thinking required to ensure patient care is always at the forefront.

The ASUM Events Team have achieved 23 events in the 19/20 Financial Year, with 1555 attendees achieving 211 CPD Points. ASUM look forward to another financial year full of high quality, thought provoking and boundary-pushing events to continue to promote ultrasound excellence.

A huge Thank You' to our amazing corporate partners and sponsors who continue to support ASUM and ultrasound education. Thank you all.

The collaboration between ASUM and the International Society of Ultrasound in Obstetrics and Gynecology (ISUOG) at the World Congress in Singapore in October 2018 was a huge success.

With more than 2,400 attendees, this was the first time ASUM had held its annual scientific meeting (ASM) offshore and only the second time ISUOG had held its ASM in the Asia Pacific region. The expertise that ASUM has in delivering an international World Congress means that the upcoming WFUMB2019 meeting in Melbourne September 2019 will deliver the highest quality scientific and educational program. See you in Melbourne!

#WFUMB19  







***The line-up of speakers for the WFUMB 2019 Congress is outstanding; over 120 ultrasound experts will deliver the exceptional program.  
Plus, take the opportunity to explore Australia!***

***Most Influential Radiology Researcher 2018 Semi-finalist –  
Welcome Dr Richard Barr***

Dr Richard Barr is a Professor of Radiology at Northeast Ohio Medical University and has been involved in elastography and ultrasound contrast for over 15 years; presenting over 400 scientific and educational presentations and invited lectures worldwide.



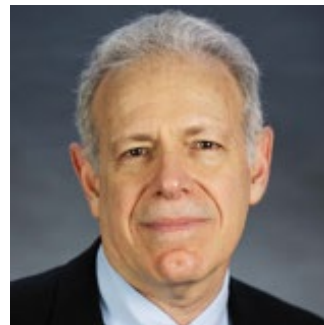
The current Editor-in-Chief of Journal of Ultrasound in Medicine, Dr Barr has published over 100 peer reviewed papers, several book chapters, and books "Breast Elastography" and "Elastography, a Practical Approach".

Aunt Minnie named him a semi-finalist for the Most Influential Radiology Researcher in 2018.

Dr Barr will be presenting on day 2 of the Congress:

- Breast - How to incorporate strain and shear wave Elastography into your practice?
- General liver - WFUMB guidelines liver elastography
- General abdomen - Re-defining Bozniak with CEUS of complex renal cysts

***Internationally recognised MSK radiologist –  
Welcome Dr Ronald Adler***



With 30 years of experience performing MSK ultrasound, WFUMB is proud to host Dr Ronald Adler, a Professor of Radiology at the NYU Langone Medical Center, New York.

Dr Adler's primary research interests have included ultrasound guided interventions and applications of blood flow imaging, assessment of soft tissue mechanical properties to evaluate bone-tendon healing and skeletal muscle. He authored or co-authored 200 papers and 26 book chapters.

Dr Adler has previously developed MSK ultrasound programs at the University of Michigan and the Hospital for Special Surgery in New York.

Dr Adler will be presenting Using ultrasound contrast agents to assess tendon healing on day 1 of the Congress and MR-US Fusion Techniques for MSK Interventions on day 2.





*We sincerely hope you take this opportunity to be a part of the world congress for ultrasound and we hope you take the chance to extend your stay and enjoy some of the amazing sights of Melbourne and the rest of Australia.*

*Melbourne is an exciting, ever-changing city with extraordinary surprises to be discovered in every laneway, rooftop and basement. A city that regularly tops the World's Most Liveable list, there's always something going on with an enviable array of major events and festivals.*

*Known for its style and sophistication, Melbourne exudes a distinct bohemian charm with its maze of hidden laneways, opulent bars, exclusive restaurants, charming gardens and off-the-beaten-track boutiques. It's also a cultural hub of museums, galleries and music venues.*

#### **Gynaecology Keynote Speaker – Welcome Dr Wouter Froyman**

Dr Wouter Froyman works as a researcher in the International Ovarian Tumor Analysis (IOTA) group and is a member of the ISUOG IOTA steering committee. His work includes the development and validation of diagnostic methods (i.e. in imaging, ultrasound in particular) for the management of patients with adnexal masses, with a focus on the investigation of the long-term behavior of adnexal lesions followed conservatively (IOTA phase 5). He is also coordinating the ongoing studies IOTA phase 7 and IOTA-MRI. Besides gynecological ultrasound, his main clinical practice covers colposcopy and hysteroscopic/laparoscopic surgery at the University Hospitals of KU Leuven, Belgium.



An invited speaker at over 25 national and international conferences and trainings, Dr Froyman received the Dame Hilda Lloyd Congress Medal for best abstract at RCOG 2016 in Birmingham, and in 2017, he received the best abstract award at the ISUOG World Congress.

Dr Froyman will be presenting in the gynaecology sessions Managing ovarian masses: how to classify them using IOTA terminology and From ovaries to endometrium: how do we differentiate benign from malignant? on days 1 & 2 of the Congress:

- What are IOTA easy descriptors and simple rules: How to use them
- Balancing risks of surgery with risks of conservative management of benign adnexal masses
- Solid ovarian masses: Lessons and pitfalls
- Reporting the endometrium and intracavitary lesions using IOTA terminology

#### **Stay up-to-date**

For registration, program, sponsorship, venue information and more, visit the website - [www.wfumb2019.org](http://www.wfumb2019.org)  
Follow us on Facebook and Twitter to ensure you don't miss any updates.







## FEDERATION REPORTS: Presidents Report

Christian Pállson Nolsøe  
WFUMB President

### *The President's final echo*

**WFUMB is a very large organization with more than 57.000 members worldwide, 11 committees and numerous ongoing projects. As it appears from the current issue of Echoes - the very same you are reading from right now - there is high level of activity everywhere and one can easily get lost in all this information. First and last, though, WFUMB is ALL about ultrasound and our motto is "WFUMB - bringing ultrasound to the World". Our primary goal can be coined in its most**

Two years go by very quickly and in a short while my term as President of WFUMB has come to an end. It has been my great honor and highly valued privilege to serve in this esteemed office.



I readily admit, it was with some excitement and a humble mind that I undertook to lift the legacy of my famous predecessors and continue the task of bringing ultrasound to the world - the WHOLE world.

Even more, though, I do admit that without my hard-working team of ultrasound world-experts in our 11 committees plus our extremely competent and incredibly effective administrative staff I would have never achieved anything.

WFUMB is ALL about ultrasound but it is equally also ALL about collaboration, cohesiveness and solidarity. There is in our organization a strong feeling of unity, and the term "WFUMB Family", introduced by immediate Past-President Harvey Nisenbaum, is a treasured and often heard expression to characterize our relationship.

### *Many of our "WFUMB Family" ...*







## FEDERATION REPORTS: Presidents Report continued ...

Christian Pállson Nolsøe  
WFUMB President

We set sail with the ambitious motto of "US4All" and we have been successful, very successful, indeed. The many reports on these pages bear witness that support this statement and prove the indisputable success of WFUMB's doings.

However, measured up against the concrete wording "US4All" we were of course not 100 % successful - far from!

There are still many medical specialties and health care provider professions that do not list ultrasound skills in their curriculum but where at the same time ultrasound seems to be a logical modality to implement as integral part of the expected professional expertise and competency. There are still numerous countries where ultrasound is not part of the standard health service. And there are still countless medical schools all over the world where ultrasound is not part of the syllabus or maybe not even taught. So, in terms of "Bringing ultrasound to the World" and "US4All" we are far from having obtained these mottos and fulfilled this task.

This is, however, not entirely all negative because it provides the driving force for the WFUMB officers of the next term 2019-2021 and for the next generation of health care providers and medical doctors all over the globe.

*I deliberately will not go into details with the great achievements of WFUMB's many committees and officers. There is plenty of material on the next pages for every interested reader to indulge in:*

*Introduction of WFUMB Webinars, new initiative of medical student ultrasound and many other educational activities, new CEUS Liver Guidelines update and new COEs around the world so that now WFUMB has at least one COE in all but one of the Worlds inhabited continents.*

**There is one area, though, that I must comment on slightly more, despite you can also read about it elsewhere herein. WFUMB's COE program may not be the largest pro bono project this world has ever seen; it does however strike me as a good candidate for the one with the largest potential.**



According to WHO, around 2/3 of the world's population has no access to medical imaging of any kind. Try to imagine if it were you living under such health care circumstances.



Try to imagine if it were you living under such health care circumstances.

Then try to imagine the huge difference if you went from no imaging to just a tiny device such as a handheld ultrasound scanner. And finally, try to imagine just how much more you could achieve if you were a doctor in rural Africa and went from palpation was all you had to being able to actually see inside the womb of pregnant young woman or the distended belly of a small child.



## FEDERATION REPORTS: **Presidents Report** continued ...

Christian Pállson Nolsøe  
WFUMB President

**If your imagination does not do you justice here, and you cannot envision the scenery for your inner eye, I strongly encourage you to read the heartbreaking tales of Peter Coombs' blog that you find on WFUMB homepage <https://wfumb.info/blog/>**

Peter has tasked himself with the challenge to bring ultrasound to modern standards at Arba Minch University Hospital in Southern Ethiopia. Having witnessed, during our Ethiopian COE course October 2018, the very difficult conditions for medical imaging, Peter offered himself as pro bono ultrasound expert teacher and sonographer to invest half a year in this project. The stories and pictures in Peter's blog send the strongest possible message that ultrasound is indeed a truly amazing and unsurpassed tool.



What could be achieved if, rather than having one world expert for 6 months we could teach a whole group of local ultrasound-capable imaging professionals that could then go on and teach local ultrasound-naïve health care providers that could finally serve at different departments in local hospitals and healthcare stations and potentially go out to the outskirts of the local community and scan pregnant women and patients.

When this happens, we can truly state that we are getting near our ultimate goal.

We can change the world with ultrasound. We can improve global healthcare. We can help reduce developing world inequity. We can better maternal healthcare and we can provide strong help to diminish oppression of women.

Here we are at the core of our activities and I regard this work, WFUMB Outreach, among our finest, most important and potential game-changing doings.

***I hope the near future will bring us nearer our goal in bringing ultrasound to the World.***



Christian Pállson Nolsøe  
WFUMB President







## WFUMB NEWS: Newest COE's

### AUA

At EUROSON 2019 Granada, Spain the Albanian Ultrasound Association (AUA) became the 31st National Society to join EFSUMB and the latest WFUMB COE. The agreement was signed by the President and Delegate, Dr. Ada Myrto (Gastroenterologist) and Secretary General Dr. Blerina Saraci (Radiologist).

Unlike Vietnam, which has 6000 society members in a population of almost 100,000,000, Albania has 7 members with a population of almost 3,000,000 but in both countries ultrasound is widely used as a diagnostic tool at all levels.



*Prof Nuenberg and Prof Sporea have been regular lecturers and hands-on tutors at the AUA courses.*



## WFUMB NEWS: Website Developments

Suzanne Cain  
WFUMB Web Administrator

It's been a busy six months for online development of WUMB. Along with a new clean designed web site our social media impact is growing and our audience reach is now in the thousands rather than hundreds.

As WFUMB's activities develop, the web site has grown - we now have a fully functioning site which has up-to-date news stories, a blog, events calendar, and micro sites for each COE.

We started the year with a call to all societies to share their events - with these essential snippets of information we have built an Ultrasound Events Calendar - a diary packed full of all the much needed dates for the upcoming events in 2019, 2020 and beyond. Find the calendar at

<https://wfumb.info/events/>

All Centre of Education micro sites are now all online and being continually added to - a place where each COE can advertise their activities, courses and achievements.

We also built a interactive map to show these pictorially - showing the huge outreach project as a whole.

<https://wfumb.info/about-coe/>



We've also added to our Education Material by publishing the Ultrasound Techniques in Pregnancy tutorials - available from <https://wfumb.info/obsgyn/>

**The site is updated daily so take a look at [www.wfumb.org](http://www.wfumb.org) or [www.wfumb.info](http://www.wfumb.info)**



## FEDERATION REPORTS: EFSUMB Update

Odd Helge Gilja  
EFSUMB Past-President 2017-2019  
Chairman WFUMB Education Committee  
WFUMB Administrative Councilor

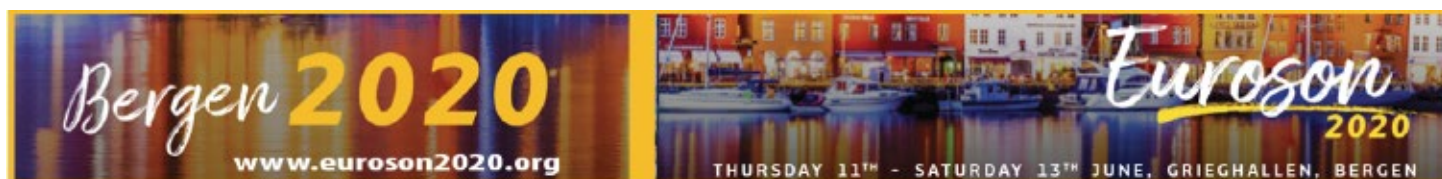
Recently, the 2019 Euroson congress will took place in Grenada, Spain and over 660 participants attended. After a splendid opening cereomy with flamenco music and dancers, the scientific and educational program was highly appreciated. The EFSUMB constitution was changed during the Board of Delegates meeting to allow individual membership from all over the world, also with access to restricted educational material on the web. Two new National societies from Ukrainia and Albania was voted into the EFSUMB ultrasound family. One new WFUMB CoE in Albania was also formally acknowledged during the congress, see picture below.



In 2020 the Euroson congress will be arranged from 11. to 13. June in Bergen, Norway. Bergen is the gateway to the fjords and mountains of Norway and Euroson2020 will be your gateway to ultrasound. Bergen is a historic city beautifully located along the western coastline with a pulsating harbor surrounded by 7 mountains.



At the Euroson congress in Granada, I stepped down after serving 6 years in the Presidency of EFSUMB. I would like to take the opportunity to thank all my fellow collaborators in the European ultrasound family of EFSUMB for a great time together working to promote ultrasound. Particularly, I want to express my greatest appreciation of our Gen. secr. Lynne Rudd, who I have enjoyed very much working with in EFSUMB.



Establishing new guidelines and clinical recommenations is a major task for EFSUMB and Parts 1-4 of the Gastrointestinal Ultrasound (GIUS) Guidelines are published and Parts 5 -7 will follow soon. Furthermore, the CEUS non-liver and elastography non-liver guidelines are completed and published.

New EFSUMB webinars are continously produced covering a large variety of subjects. The webinar archive is popular although the Case of the Month remains the most visited area of the EFSUMB website.

The role of education is important in EFSUMB with Euroson Schools, CEUS Schools and Endorsed Courses and Ultrasound Learning Centres available throughout the year. The EFSUMB Course Book (ECB) is now available on the new EFSUMB ultrasound app.



**The MASU board worked very hard for the promotion of WFUMB goals in Africa**

**During the last six months, we worked towards recruiting new members and societies. We succeeded in having Oman as a new member with a very active board; they have also registered OMUS (Oman Society of Ultrasound in Medicine) as their new society.**

The initiative is led by Professor Saqar Altai, and we have planned some courses there in 2020. Oman is in the Middle East and this region is covered by MASU. We hope to entice membership from other Middle Eastern countries in the near future.

Uganda and Ethiopia are active members and we are also trying to consolidate the participation of Sudan and Nigeria.

There are numerous challenges in Africa and we are tackling each one to the best of our ability.

We are also promoting MASU activities in Saudi Arabia, where Hassen Gharbi will present a lecture on behalf of WFUMB : "Conditions when Ultrasound can be an alternative to CT and radiography in Pediatric age group" at the RSSA, Radiological Society of Saudi Arabia in November 2019 and we hope to create a local Society of Ultrasound and thereafter make them MASU members during this meeting.

We participated in and organized a session dedicated to Africa: 'ESR meets Africa'; during the European Congress of Radiology, Vienna Austria in February 2019.

We set up a centrally located booth which was very popular with visitors and WFUMB activities were promoted by Mrs Lynne Rudd, WFUMB Administrative Manager. Also present were MASU President Sudhir Vinayak and Hassen Gharbi MASU and WFUMB Past President who co-chaired the ECR meets Africa session. During this ECR Congress, MASU participated in several round table meetings dedicated to Radiology. The main objective was to promote ultrasound as an efficient tool for substituting ionizing radiation in medical imaging; with a strong emphasis on pediatric and point of care imaging. We hope to have our next MASU Congress under the auspices of WFUMB in Italy, who are also one of the founder members of MASU.

**News from the African French speaking area**

**Tunisia is located in the northeast part of Africa, with 11.3 Millions inhabitants, part of the developing countries in the world. US is well developed in several fields since 1977.** We have around 800 radiologists , 800 OBy/Gyn , 650 cardiologists, 300 anesthesiologists which are good ratios in our area. MASU has been active in Tunisia for more than 30 years.

The Tunisian Society of Ultrasound had its bi-annual International Congress this year from 4-6th October 2018 in Tunis , Tunisia, under the auspices of WFUMB and MASU, with the collaboration of FMF, The Foetal Medecine Foundation and 7 different Tunisian Medical Associations, radiology , OB/Gyn, cardiology ...

Successful multidisciplinary meeting, 250 participants, ob/gyn , radiologist , cardiologists, anesthesiologists, Bio-Physicians, Doctors and Midwives, 35 speakers , from all the parts of Tunisia, but also from UK and France

Different topics were included with special mentions of Artificial intelligence program in obstetrics, senology, several hands on sessions were organized.



# FLAUS UPDATE

Written on 09/06/2019  
by Ana Chavarría, MD.

Take a look at the Latin America Federation of Ultrasound Calendar for all the those important 2019 ultrasound event dates ...

1

## **ATLAS OF US IN GYNECOLOGY**

*by Roberto Moncayo, MD.*

2

## **II MSK US CONGRESS BY SPUMB**

📍 *Lima, Peru.*

📅 *4-6 july 2019*

3

## **XIX FLAUS CONGRESS**

📍 *Salvador Bahía, Brazil.*

📅 *12-13 july 2019*

4

## **WFUMB 2019 CONGRESS**

📍 *Melbourne, Australia.*

📅 *5-9 september 2019*

5

## **XXXIV ECOMED CONGRESS**

📍 *Caracas, Venezuela.*

📅 *13-14 september 2019*

6

## **X S.D.SONO. CONGRESS**

📍 *Santo Domingo, Dominican Republic.*

📅 *14-15 september 2019*

Read more at <https://www.flaus-us.org>





**In June clinicians descended on the Danish outreach of Torshavn in the Faroe Islands for a two day course arranged by the Danish Society for Diagnostic Ultrasound (DSDU) and the Danish Society for Ultrasound in General Practice (DAUS) in collaboration with WFUMB.**

The population of the Faroe Islands is 50,000, with 21,000 of these living in Torshavn. The availability of PoCUS has greatly assisted the local clinicians in deciding whether medical treatment can be completed locally or if transfer to facilities on the mainland is required.

The 56 attendees came from Denmark and Norway, with 70% being Faroese practitioners.

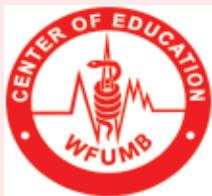


The course coincided with a WFUMB executive council and education meeting and so valuable involvement in lectures and workshops was provided by lecturers from Germany, USA, Australia, Korea, Brazil, Norway and Kenya. Subjects covered included topics from everyday clinical practice such as liver, gallbladder, renal, paediatric abdomen, FAST & E-FAST, lung, basic O&G as well as DVT, AAA and venous access.

The mayor of Torshavn gave a reception at city hall for the course participants who also shared a typical Faroese buffet with local entertainment of music, dancing and storytelling.

The organising committee included Djoni Sandberg Joensen (radiologist) and Rogvi Rasmussen (GP), both Faroese, as well as Bjorn Skjoldbye (DSDU), Thomas Lokkegaard (DAUS) and Christian Nolsoe (WFUMB).





## COE Reports: Europe COE Activities

Prof. Ioan Sporea, MD, PhD  
Director of Task Force COE Europe

**Currently there are 3 WFUMB Centers of Education in Europe: in Timișoara (Romania), in Kishinev (Moldavia) and in Tirana (Albania).**

The first WFUMB COE was established in Timișoara a long time ago, in 2007. This Center has a rich educational activity, organizing two basic ultrasound courses for specialists and general practitioners each year, also an annual WFUMB COE workshop with interesting topics (this year the topic was "Ultrasound in Emergency"). WFUMB COE Timișoara also organizes ultrasound teaching programs for students and Euroson School courses (every year for the last 4 years, in November 2018 two of them - on "Elastography" and on "Contrast Enhanced Ultrasound"). The staff of WFUMB COE Timișoara is very active in teaching ultrasound during large international meetings (UEGW or WCG).



WFUMB COE Kishinev was inaugurated in 2017, with Dr. Sergiu Puiu as director, and became a stable center of education during the last two years, organizing courses of general ultrasound, obstetrics and gynecology or gastrointestinal ultrasound, with lectures and hands-on sessions, very well attended. Some meetings are dedicated to fellows in training, where hands-on sessions are well appreciated.



**Other centers from Europe are now under evaluation, for possible development as new WFUMB centers of education.**





## The World Federation for Ultrasound in Medicine and Biology (WFUMB) has strengthened the publication activities in recent years.

Just to recall that the WFUMB guideline update on elastography of the liver has been published [(1)] in addition to the previous guidelines on the use of elastography of the prostate [(2)] and thyroid [(3)].

The WFUMB position paper on student medical ultrasound education [(4)] has gained positive echoes and was challenged by a letter to the editor, which allowed a stimulating response [(5)]. The part 2 of the WFUMB position paper on student medical ultrasound education has been submitted and is currently under review.

WFUMB has also published a well cited WFUMB Position paper, How to perform CEUS (general) [(6)]. Practical CEUS recommendation for specific organs systems are under preparation.

WFUMB also stimulated the discussion for better disinfection and hygiene practice [(7)].

Incidental findings, often called incidentalomas, are a common occurrence in medical imaging. The literature reveals numerous studies relating to unexpected findings, from trauma patients undergoing various forms of imaging, healthy volunteers having scans for research purposes, to the impact of detecting potentially serious incidental findings. There are clinical, ethical and financial implications of incidental findings, evaluation of the incidence, benefit and burden and also the management and communication of incidental findings in imaging studies. WFUMB addresses a series of publications on incidentalomas, which will look at the definition, prevalence, imaging features, combined imaging criteria, image guided biopsy if relevant and the follow up and recommendations.

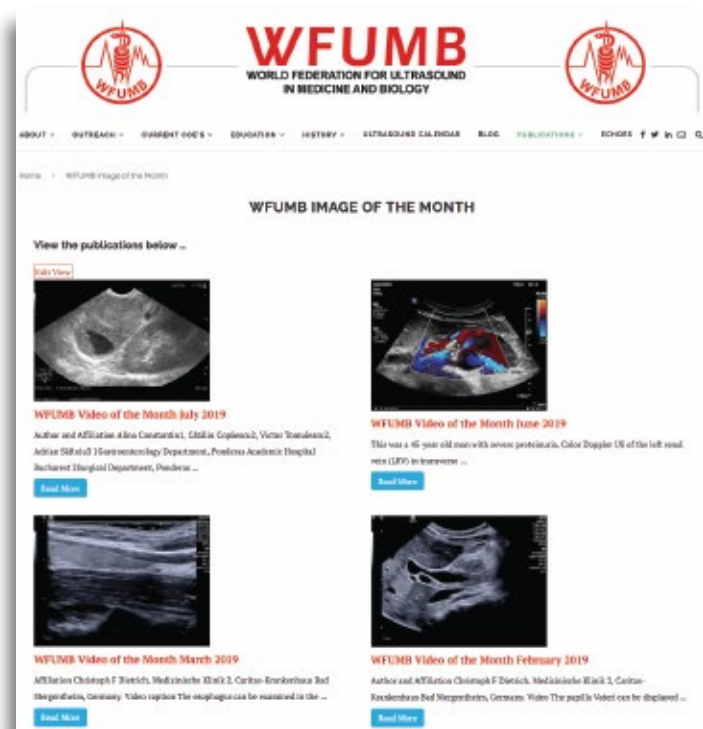
The WFUMB Administrative Council also discussed and approved the EFSUMB proposal on how to guide and perform future guidelines processes [(8)].

A WFUMB CEUS Liver update is proposed for publication in 2019 and WFUMB will draw on a team of international experts who have been invited to update the individual parts. The co-leaders of the project will be Christoph F Dietrich (Chair of WFUMB Publications Committee) and Christian Nolsøe (WFUMB President).

The 2012 guideline [(9)] requires updating as previously the differences of the contrast agents were not precisely described and the differences in the arterial phase and handling were not clearly indicated. In addition, more evidence has been published for all contrast agents.

The publication committee has been active during the last period also to initiate "WFIM" (WFUMB Image of the Month, which has been published since July 2018). The WFUMB image of the month (WFIM) should be a single image (and/or video) with a clear take home message referring to an important published paper. The WIM should not have been published elsewhere (copyright by the author and by WFUMB). The take home message should be expressed as one image or video of the month and as short and precise conclusion of the cited paper (one or two sentences). All WFUMB members are warmly welcome to submit one image or video. Please visit our WFUMB website ([www.wfumb.org](http://www.wfumb.org)).

Any other proposals are warmly welcome to stimulate publication activity of WFUMB.





## FEDERATION REPORTS: Publications Committee continued ...

Christoph F Dietrich  
Chairman Publications Committee

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## FEDERATION NEWS: CEUS Guidelines Update

Christoph F Dietrich  
Chairman Publications Committee

### The 2012 published GUIDELINES AND GOOD CLINICAL PRACTICE RECOMMENDATIONS FOR CONTRAST ENHANCED ULTRASOUND (CEUS) IN THE LIVER– UPDATE 2012.

A WFUMB-EFSUMB INITIATIVE IN COOPERATION WITH REPRESENTATIVES OF AFSUMB, AIUM, ASUM, FLAUS and ICUS require updating as previously the differences of the contrast agents were not precisely described and the differences in the arterial phase and handling were not clearly indicated. In addition, more evidence has been published for all contrast agents. The publication of the WFUMB CEUS Liver update is planned for early 2020 in both journals as done with the previously published guidelines. Therefore, publication will be simultaneously in the European Journal of Ultrasound, EJU (Ultraschall in der Medizin) (1) and in Ultrasound in Medicine and Biology (UMB) (2) after mandatory review. WFUMB has drawn a team of international experts who have been invited to update the individual parts. The successful meeting has been held in early June in Granada, Spain. The co-leaders of the project are Christoph F Dietrich (Chair of WFUMB Publications Committee) and Christian Nolsøe (WFUMB President).

1. Claudon M, Dietrich CF, Choi BI, Cosgrove DO, Kudo M, Nolsoe CP, Piscaglia F, et al. Guidelines and good clinical practice recommendations for contrast enhanced ultrasound (CEUS) in the liver--update 2012: a WFUMB-EFSUMB initiative in cooperation with representatives of AFSUMB, AIUM, ASUM, FLAUS and ICUS. *Ultraschall Med* 2013;34:11-29.
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**WFUMB is pleased to work in partnership with ISUOG and can provide links to its members - please find all active links on our web site at <https://wfumb.info/isuog/>**



- ISUOG's Basic Training programme: organising an ISUOG Basic Training course, organising satellites to live stream them, running an ISUOG Basic Training course promoting Basic Training modules free and available to all, and educational films.
- Lectures from our congress are available only to members here (<https://www.isuog.org/education/ondemand.html>), same for the recordings from our courses (<https://www.isuog.org/education/learning-modules.html>), CME platform (<https://www.isuog.org/education/cme.html>) and our visual encyclopedia, VISUOG (<https://www.isuog.org/education/visuog.html>)
- Our journal is accessible for members subscribing to it (<https://www.isuog.org/journal.html>), but there is also quite a lot of free content, including video abstract (<https://www.isuog.org/journal/uog-videos.html>) and journal club (<https://www.isuog.org/journal/journal-club.html>)
- ISUOG guidelines and statements.
- ISUOG courses and congress, particularly, opportunities to live stream a course, to be included in your calendar of events:
- Free ISUOG trainee memberships offered to trainees of the WFUMB. This membership will give trainees of the partner society the same benefits as the journal membership, completely free of charge for the trainee and for the institutions for two years (For reference, Journal membership is £115 per year).
- ISUOG Outreach video Plan your movements and improve your image <https://www.youtube.com/watch?v=OHI-fxefyH4>
- Ultrasound in Obstetrics and Gynecology free e-book, [https://www.evms.edu/obstetrics\\_and\\_gynecology/ultrasound\\_ebook/](https://www.evms.edu/obstetrics_and_gynecology/ultrasound_ebook/)

**ISUOG's future Congresses can be found linked on our ISUOG Partnership page at <https://wfumb.info/isuog/>**



## **29<sup>th</sup> World Congress on Ultrasound in Obstetrics and Gynecology**

**12-16 October 2019, Berlin, Germany**



## **30<sup>th</sup> World Congress on Ultrasound in Obstetrics and Gynecology**

**17-21 October 2020, Glasgow, UK**

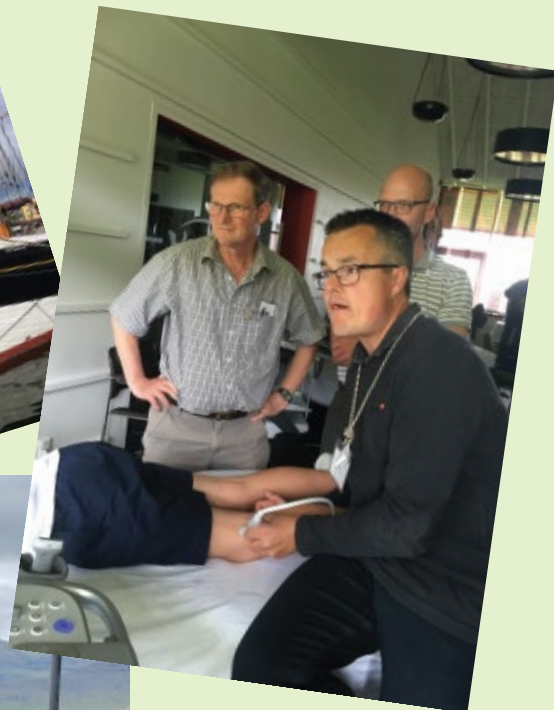
*Celebrating 30 years*



A picture is worth a thousands words ....

# Photo Gallery

... images from WFUMB adventures



# Prof Dr. Giovanni Cerri

Christina Chammas (FLAUS)

## **Q. How and when did you become involved in ultrasound?**

I got interested in US during my Residence in Radiology in the HCFMUSP between 1977/1979. The use of US in Internal Medicine was just beginning, which was my interest at the time. After courses and trips, I introduced US in Internal Medicine in the hospital of the university and quickly this method was widely adopted.

## **Q. Were there any particular people that influenced your work?**

I would mention two people: Francis Weill, a great professor and humanist. He had a huge influence in my first years in ultrasonography. Barry Goldberg, also a great professor and researcher, who contributed a lot in a more mature phase of mine.

The two of them became my friends and were also my predecessors in the presidency of the WFUMB.

## **Q. What were your career highlights?**

The foundation of the most important school in the formation of ultrasonographers of the country in the Radiology Institute of HCFMUSP, with the publication of countless papers and books that contributed to

the formation of many physicians in Brazil and in other countries. As a remarkable example, I mention the professor Cristina Chammas, my great friend and exceptional professional.

We worked together for many decades and now she's the future president of the WFUMB.

The presidency of the Radiological and Diagnostic Imaging Society of São Paulo (Sociedade Paulista de Radiologia), Brazilian College of Radiology (Colégio Brasileiro de Radiologia), FLAUS, WFUMB and of the World Congress of the WFUMB in São Paulo are part of my history in Medical Societies.

Dean of the School of Medicine, University of São Paulo and president of the Hospital das Clínicas Council for two terms and secretary of Health

## **Q. What are your impressions of the ultrasound technology available today?**

I had the opportunity of working with the first static US equipment and with the first real-time machine. The transformation of ultrasonography was shocking: the expansion of its appliances, the image quality, the Doppler, the 3D and 4D, the contrasts. The most recent technologies with transducers of the highest definition to small parts and the Doppler resolution showed that the technique remains in evolution.



## **Q. Are you still involved with the ultrasound world?**

Totally involved in the University, in a more leading and mentoring position, of course. And performing ultrasound exams as much as the time and the administrative activities allowed.

My mission is to help maintain in our Institute the quality of the education and of the infrastructure that allow us to keep molding amazing practitioners and leaders of the specialty.

*"Fatty Liver - an emerging problem in clinical practice"*

2 October 2019

**WFUMB WEBINAR**

15.00 CEST