AFSUMB and WFUMB Publications

WFUMB IS DEDICATED TO THE ADVANCEMENT OF ULTRASOUND BY ENCOURAGING RESEARCH, PROMOTING INTERNATIONAL COOPERATION, DISSEMINATING

SCIENTIFIC INFORMATION, AND IMPROVING COMMUNICATION AND

UNDERSTANDING IN THE WORLD COMMUNITY.



A NEWSLETTER PROVIDING REPORTS AND HIGHLIGHTS OF WFUMB'S WORLDWIDE EDUCATIONAL ENDEAVORS

The Value of Your Membership: Does US\$1.50 really make a difference?

> WFUMB's five centers of excellence, such as its most recent center in Jakarta, Indonesia, provide a key resource in the ultrasound training of local medical practitioners.



WFUMB collects dues from its six affiliates—AUM, AFSUMB, ASUM, EFSUMB, FLAUS, and MASU on the order of US\$1.50 per member. The funds are then applied to the various educational efforts organized by WFUMB volunteers and leadership. At a recent Education Committee meeting, the results of our funding were dearly apparent. WFUMB's various Centers of Excellence (COEs), located in Bangladesh, Uganda, Venezuela, Romania, and Indonesia, combined, have put on 24 annual workshops since 2004 and have 25 years of cumulative experience in providing ultrasound training.

In addition to the education offered through the COEs, WFUMB sponsors educational projects which target three emerging regions: Africa, Asia, and Latin America. Each regional activity is coordinated through a WFUMB officer or councilor: Hassen Gharbi in Africa, Byung Ihn Choi in Asia. and Leandro Fernandez in Latin

WFUMB participates in the WHO/HINARI project, providing free WFUMB journal subscriptions in electronic format

to needy centers in developing and emerging countries

The Global Ultrasound Equipment Donation Foundation (GUEDF), organized by Education Committee Chair Barry Goldberg, provides a mechanism for installing ultrasound machines in needy centers in developing countries. See page 4, "Making a Difference?" for a first-hand accounting of the value these machines deliver.

WFUMB's newest initiative, developing a set of e-learning

- Education Projects: Asia, 2 Africa, Latin America

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- Making a Difference - Education Committee Brainstorming -- WFUMB Committees

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- CEUS Liver Guidelines - New Safety Statements . UMB Impact Factor Rises

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"We would like to thank
WFUMB for all the support
that was given to us."

Wilaipom Bhothisuwan

continued from p

modules to aid in ultrasound training, represents a significant step forcard in WFUND's ability to provide a global product that can be ultrade anywhere, at any time. Although development of the product will require a significant investment, once created, the implementation cools will be minimal. Education Committee member Paul Dubbirs is spoutheading the intensive effort with an initial focus on obstetrical ultrasound. The hope is that a basic ultrasound training module will have a termendous impact on the materialfeat imortality rate in the targeted reactions.

The reality is that e-learning will provide an efficient, consistent, measurable, and portable method of training. Global outreach—the ultimate goal, is within our sites.



WFUMB Education Projects

ASIAN EDUCATION PROJECT



The 2011 World Federation for Ultrasound in Medicine and Biology (WFUMB) Medical Ultrasonic Society of Thalland (MUST) Asian Educational Course was held February 16 – 18, 2011, in Thalland.

The course was organized by Wilaipom Bhothisuwan, who was president of the MUST at that time. The meeting was held in the 50 year Royal Jubilee Balking, which belongs to the Thai Medical Association, and in conjunction with MUST Annual Scientific Meeting.

The program included lectures, I we demonstrations of tests. Masatoshi Kudo, ViFUMB's president-elect, and WFUMB Administrative Councilors Bying. Bin Choi and Seung Hyup Kim lectured on behalf of WFUMB. There were 320 participants including 150 residents from Thalland, Indonesia, Laos, and the USA.

AFRICAN EDUCATION PROJECT

- Three courses have been held in Lusaka-Zambia (8-12th Feb 2010), Tripol-Libya (25th to 27th June 2010), and Kigal-Rwanda (12-16³⁴ Dec 2010).
- MASU Congress 2012: This will be held in Nairobi-Kenya 3 to 7 2012, under Kenya Society of Ultrasound in Medicine and Biology (KESUNB).
- Promotion of MASU activities in the future with a purpose of spearheading activities in Ethiopia, Nigeria, Togo, Senegal.
- Zanzibar/Pemba program will continue under the auspices of SIUMB and MASU.
- Additional efforts will be plained through WFUIMS umbrella. Support to societies through scholarship, donations, visiting professors program. Possible creation of the second African WFUIMS COE in Nigeria.
- We are planning for a project for 2011-2012 Lomé in Togo with potential of a French speaking COE.
- We plan for a MASU course in Addis Ababa, Ethiopia, in collaboration with WFUMB and ISR in 2012.
- The activities in Misurata, Libya are still awaiting resumption of peace and calm in Libya.

LATIN AMERICAN EDUCATION PROJECT

The WFUMB Latin American Education Project has been very active, supporting and co-organizing scientific activities in Venezuela and Brazil.

A variety of courses have been organized throughout South and Central America since early 2010.

- The 2nd FLAUS Course, Guaternalan Ultrasound Society, April 15 - 17, 2010, Guaternala
- Centroamerican Federation of OB-GYN Societies/ FLAUS Congress, April 19 - 23, 2010, Nicaragua
- FLAUS Bolivian Ultrasound Course, Bolivian Ultrasound Society, April 29 – 30, May 01, 2010, Bolivia
- The 7th Symposium of Actualization in Gynecology & Obstetrics, Colombian Ultrasound Society, April 22 —

- 23 24, 2010, Cartagena, Colombia
- The 7th Symposium of Dominican Utrasound Society, Breast Utrasound, May 7 - 8, 2010, Dominican Republic
 Messain Federation of Utrasound FLAUS Congress.
- July 29 31, 2010, Acapulco , Mexico

 The 8th International Ultrascund Symposium
- The 8th International Ultrasound Symposium Neurosonography course -FLAUS, Costa Rica Ultrasound Society, September 30 - October 1 - 2, 2010, San Jose, Costa Rica
- FLAUS-AVUM Utrasound Congress, Venezuelan Utrasound Society, October 7 - 9, 2010, Puerto La Cruz, Venezuela
- Brazilan College of Radiology/WFUMB-FLAUS Course, October 9 – 12, 2010, Rio de Janeiro, Brazil

WFUMB Centers of Excellence (COEs)



COE LOCATIONS AND LEADERSHIP

Bangladesh Society of Ultrasonography Dhaka, Bangladesh; Established 2004 Secretary; Koru Balla

Indonesian Society of Ultrasound in Medicine Jakarta, Indonesia, Established 2011 Secretary: Daniel Malles

Romanian Society of Ultrasound in Medicine and Biology Timiscara, Romania; Established 2007 Secretary, Isan Sports

Sociedad Venezolana de Ultrasonido en

Medicina Caracas, Venezuela; Established 2005 Secretary: Learning Fernandez

Uganda Association of Sonography Kampula, Ugarda: Established 2004 Secretary: Michael Kavooya

COE REQUIREMENTS

Mission: to provide education in medical ultrasound in developing countries, grant recognition to participants after completion of a course, and accumulate ultrasound-related reference materials.

Sponsoring Society: The Society sponsoring the COE must be a legally established organization and partnered that AVE/LMB federation. It must be located in a developing country and possess an independent office with sufficient past experience in ultrasound education. Also, it must have the ability to attract trainees, not only from its own country, but also from surrounding countries.

COE Responsibilities: The COE shall be responsible for conducting annual educational programs at least once a year and divided into two tracks: one for ultrasound practitioners and one for identication.

WFUMB Leadership 2009-2011

A SPECIAL THANKS TO THE WFUMB LEADERSHIP FOR THEIR 2009-2011 TERM OF SERVICE

Executive Bureau

President:

Michel Claudon (France - EFSUMB)

President-Elect: Masatoshi Kudo (Japan - AFSUMB)

Vice President 1:

Leandro Fernandez (Venezuela - FLAUS)

Vice President 2:

Ronald Benzie (Australia - ASUM) Secretary:

Secretary: David Evans (United Kingdom - EFSUMB)

Treasurer

Beryl Benacemaf (USA - AJUM)

Immediate Past President:

Giovanni Cerri (Brazil - FLAUS)

Administrative Councilors

Joshua Copel (USA - AIUM) Norbert Gritzmann (Austria - EFSUMB) Michael Karwooya (Uganda - MASU) Seung Hyup Kim (Korea - AFSUMB) Roberto Moncayo (Ecuador - FLAUS) Fergus Scott (Australia - ASUM)

Co-Opted Councilors

Byung Choi (Korea - AFSUMB) Hassen Gharbi (Tunisia - MASU) Barry Goldberg (USA - AIUM)

Journal Editor (UMB)

Christy Holland

The addition of a Center of Excellence in areas such as Ethiopia, Mongolia, Paraguay, or Fiji would greatly enhance the level of educational expertise in rural areas throughout the world.

WFUMB Welcomes Indonesian Center of Excellence

First Session Held February 12-13, 2011

WFUMB's 5th COE came into existence on February 12, 2011 during the Indonesian Society's Ultrasound Session, February 12-13, 2011.

The signing was held in conjunction with the 6th Annual Meeting of the Indonesian Society of Oncology Imaging (ISOI) February 12 – 13, 2011.



Daniel Makes, the COE Secretariat signed the contract with Byung Ihn Choi COE Advisory Council Chair (pictured above).

The first workshop of the COE was entitled "Hepatobiliary and Pancreas Ultrasound" finited speakers Byung Choi and Masatoshi Kudo represented WFUMB at the meeting, which attracted over 200 participants.

The COE will be holding several courses in the coming year with topics planned for color Doppler and musculoskeletal ultrasound. "Committee work is the driving force behind our successes. It is essential to recognize those that continually and thelessly contribute to the mission of the organization." Michel Caudon

WFUMB Committees

WFUMB extends its gratitude to all its 2009-2011 committee participants, and a special thanks to committee chairs:

Congress Committee David Evans

Constitution Committee

Joshua Copel & David Evans

Education Committee Barry Goldberg

Finance Committee

Finance Committe Ronald Berizie

Nominating Committee Masatoshi Kudo

Safety Committee

David Cyane

Publications Committee Michel Claudon

Public Relations Committee Masatoshi Kudo

Making a Difference? Absolutely!

GLOBAL ULTRASOUND EQUIPMENT DONATON FOUNDATION (GUEDF) - A TESTAMENT TO SAYING LIVES

The following is related by Dr. Esther Kawra, Medical Director Shirati Health, Education and Development Foundation (SHBD) and 2008 recipient of an ultrasound machine from WFUMB's. Global Ultrasound Equipment Donation Foundation (GUEDF).

she be developing some kind of ugity tumor, I wondered? It didn't seem to be connected to either the liver of the spicen. I advised her that we needed to do another strassound, to determine the true age of the baby, and to see what that mass was. At the end of clinic hours, I found her waiting.

"When we arrived, we found that the power, after being off all day (rationing), had just come on again."



*25 May 2011—Abdominal Pain *My abdomen hurts." This is a very common initial complaint. I responded by asking my common first question to young women of child bearing age, "Are you pregnant?" "Yes", she responded. She was from Musoma, the district headquarters several hours away, but had come to Roche to attend a funeral at her brother's home. She had taken the opportunity to be examined by me on my one day per week at the Roche Health Center. She had been troubled by abdominal pain for months during this, her third pregnancy. By history she was now about six months along. She had had an ultrasound a few weeks before, she said, at a private clinic in Musoma. She said she had been told that the placenta was high and the baby was low...but nothing that made sense to me. The report, she said, was on her antenatal card that she left at home. I examined her, and found that the swelling of pregnancy in the lower abdomen was not as large as I had expected. I found good fetal heart tones with the doptone. However, more warrying was a hard mass across the upper abdomen. Could

requesting a lift with our vehicle to Shirati, my home base where I do ultrasound. I agreed that if the power was on when we arrived, I would do the ultrasound then, though I normally do non-urgent scans just in the mornings. When we arrived, we found that the power, after being off all day (rationing), had just come on again. I started the scan in the lower abdomen, and was surprised to see that the uterus was only minimally enlarged, and did not contain a pregnancy, only thickened endometrium. I could already see an univ looking tumor encroaching into the scanning field in the lower abdomen. Where was the pregnancy? Had I really heard the fetal heart tones earlier, I wondered, or was the patient's own heart rate rapid? I rechecked the patient's pulse, and it was about 80. Perhaps my memory was faulty. I scanned upwards a bit, and the ugly tumor continued into the upper abdomen. I looked again in the uterus. Still no baby, not even a tiny one! With a sigh, I decided to look for familiar structures in the upper abdomen, starting with the spleen and left kidney in the left upper flank. Moving my probe,

(continue

Education Committee Brainstorming Session

The WFUMB Education Committee and officers participated in a brainstorming session on February 24-26, 2011 is Sin Jose, Cotal Roca Leaders from several WFUMB Centers of Excellence, as well as education from various parts of the world contributed to the success of the meeting, providing a first-hand accounting of the challenges laced every day in performing of bracound education with minimal resources. The generous hospitality of the Latin American Federation of Ultrasound in Medicine's (FLAUS) leadership was outstanding. FLAUS juned with WFUMB for a portion of the time to discuss balance WFUMB 2015.



Supporting Local Programs to Educate the Educators



Equipment Donation to Nigeria



Training Session in Tanzania



raining Session in Zambia



MASU Course in Tripoli

(continu

I saw clearly....a fetal head!! I was dumbfounded. Yes, it was definitely a fetal head, it couldn't be anything else. It was big. I measured it, giving no visible reaction to the patient, it was 26 week size. I scanned across the upper abdomen and found the body, with a beating heart. This was an advanced ectopic pregnancy, abdominal type, with the baby still alive, and the ugly tumor was the placenta, plastered among the intestines no doubt. I turned off the machine. I was still almost speechless, though I let out a big sigh, intentionally to start gently cluing the patient in that perhaps all was not right with her world. "Do you have someone here with you?" I inquired. "Yes, my brothers are outside", she replied. Sure enough, not one but two brothers had followed us by motorcycle and were waiting for my report. I sat us in a circle and began gently to explain the problem, the potential disaster that was brewing in the abdomen of their sister. They listened intently, "Risk to the baby, risk to the mother, surgery will have to be done, placenta can't be removed", some of it went over their heads, but they got the basic message. It was urgent to transport their sister to the hands of a specialist surgeon in Mwanza, five hours away. As I write this report, they are en route by bus to Mwanza, with my referral letter Meanwhile, I have traced the name of an Ob/Gyn doctor there to receive them, consulted with him by phone, and sent his name to them by their cell

phone, so there is no undue delay or confusion when they arrive. According to the Obstetric textbook, this situation of advanced abdominal pregnancy occurs in about 1 in 10,000 pregnancies. The baby, if not already dead when the situation is diagnosed, is often born premature because of danger to the mother of expectant management, and therefore the decision to operate immediately. The mother is at risk of death from hemorrhage during the surgery, as the placenta may separate spontaneously from its anchorage onto other abdominal organs. Even when the placenta is left in place, its resorbtion over time can be complicated by abscess or fistula formation, sometimes with need for subsequent repeat surgery. I am thankful for my stellar reputation (+), that led this patient to seek me out during a funeral visit to our area. I am thankful that I have a good ultrasound machine, I am thankful that the power was on. I am thankful for cell phones, that have completely penetrated even into rural areas of Africa. And I pray that the doctors at the zonal referral hospital will have the means to save this patient's life, even though the risks are greater here than in the country where the textbook was written and from which the statistics came. Afterward: I got a report from 24 hours after surgery, that the mother and baby (1150 gram female) were doing fine. The placenta was attached to the left tube and ovary, and the surgeon was



President's Farewell

Looking retrospectively at the last two years, it is clear that the primary focus of my term as WFLIMB president has been on collaboration. In an age where the global community has so



many opportunities to interact, I am confident that WF-UMB's educational endeavors are contributing to the development of strong clinical practices of ultrasound worldwide.

in 2009, WFLIMB expanded relations with the International Society of Radiology (SRO), and together, both have agreed to a joint educational project in Africa, equally funded by both organizations. ISR President. SRO President, Gourtsoyamss, along with L. Marti Bornstali will speak at WFLIMB 2011, and WFLIMB, who sent speakers to ICR 2010, will participate again in ICR 2010.

The WFUMB and International Society of Ultrasound in Chaletines and Gynecology (SUCOS) Safety Committees have increased collaborative efforts to produce shong, unified safety statements such as the "Statement on the Safe Use of Doppler Ultrasound During 11-14 Weeks Scans (or Einfare in Pregnancy). approved by both organizations earlier fish year and subsequently adopted by the American Institute of Ultrasound in Medicine as well.

I, along with European Federation of South Federation of South Federation and Biology (EFSUMS) President Christian Indise, have worked closely to coordinate and facilitate the revision of EFSUMS's current continust guidelines into an International Cludelines and Coord Cinical Practice Recommendations for Contrast Enhanced Ultrasound (CEUS) of the Liver." Experts from all over the world have contributed to the revisions, writing both in-person and online. Input from our Asian colleagues was particularly important be ensure the final product represented a global practice of the CEUS of the

As I come to the end of my presidency, there is a bit of notatigit associated with thoring a WF-UBG congress in Vienna-WF-UBG's first congress was held here in 1900. WF-UBG has grown themerobust) in its 42 years and now represents over 64,000 individuals from all over the globe. While we approache how lare we've come, we know we wouldn't be here boday if it weren't for those wouldn't be here boday if it weren't for those wouldn't be here boday if it weren't for those congress organizers will present. "How Everything Started." Meting doorse as I feel it is very verportant to look to the past while heading into the future.

Michel Claudon President, WFUMB



This is a major accomplishment for the world and coming just in time for ultrasound practitioners in the United States." Barry Goldberg

UMB Impact Factor Rises



The WFUMB's journal, Ultrasound in Medicine and Biology (UMB), continues to flourish under the direction of Editor-in-Chief Christy Holland. The recently-

released 2010 impact factor for UMS is 2.493, a 23% increase over the 2009 impact factor of 2.021.

In addition, the journal is number 4 of 29 titles in Acoustics and 42 of 111 titles in Radiology. Total citations grew by 19%, from 5,629 to 6,695.

This is a testament to the quality of the material being published in *UMB* and to the entire *UMB* editorial board and staff.

The WFUMB "Statement on the Safe Use of Doppler Utrasound During 11-14 Week Scans (or Barlier in Pregnancy)" was subsequently adopted by the American Institute of Utrasound in Medicine, the International Society of Utrasound in Obstetrics and Gynecology, and is pending adoption by other societies throughout the world.

Contrast-Enhanced Ultrasound Guidelines of the Liver

A JOINT PROJECT ORGANIZED BY THE EFSUMB AND WFUMB

On December 3-4, 2010, the World Federation for Utrasound in Medicine and Biology (WFUMB) and the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) brought logether a panel of 36 European (UK, Germany, Italy, France), North American (USA, Canacda) and Asian (China, Japan, Korea, and

Ultrasound in Medicine and Biology (UMB) and the European Journal of Ultrasound (EJU). The current "Guidelines and Good Clinical Practice Recommedations for Contrast-Enhanced Ultrasound (CEUS) of the Liver," were produced by EFSUMB (Ultrashal 2004 and 2006).

"The need for alternatives to ionizing radiation is



India) experts to facilitate the revision of EFSUMB's current contrast guidelines into an "International Guidelines and Good Clinical Practice Recommendations for Contrast-Enhanced Ultrasound (CEUS) of the Liver."

"One of the primary goals of the meeting was to ensure the contribution of a panel of infernational aperts representative of different practices of CEUS worksheds," said WFUMID president Michel Caudon, who or chained the meeting with EFS.URB president Christian Notine. The plan is to simultaneously sobilish the resulting solderines in both helping to change the way ultrasound is practiced in the United States. This is a major accomplishment for the world and coming just in time for ultrasound practitioners in the United States." commented Barry Golüberg.

While a significant portion of the work was accomplished at the meeting, which was held in Chicago, USA, the group has continued to meet via conference call and at local meetings, when possible. It is anticipated that the completed guidelines will be finalized during WFUM2011 in Venna.

New WFUMB Safety Committee Statements

WFUMB SAFETY COMMITTEE ANNOUNCES THE RELEASE OF TWO NEW SAFETY STATEMENTS

WFUMB Statement on the Safe Use of Doppler Ultrasound During 11-14 Week Scans (or Earlier in Pregnancy)

- Pulsed Doppler (spectral, power and color flow imaging) ultrasound should not be used routinely.
- Pulsed Doppler ultrasound may be used for clinical indications such as to refine risks for trisomies.
- When performing Doppler ultrasound, the displayed Thermal Index (TI) should be less than or equal to 1.0 and exposure time should be kept as short as possible (usually no longer than 5-10 minutes) and not exceed 60 minutes.
- 4. When using Doppler ultrasound for research, teaching and training purposes, the displayed TI should be less than or equal to 1.0 and exposure time should be kept as short as possible (usually no longer than 5-10 minutes) and not exceed 60 minutes. Informed consent should be obtained.
- In educational settings, discussion of first trimester pulsed or color Doppler should be accompanied by

- information on safety and bioeffects (e.g. $\,$ Ti, exposure times, and how to reduce the output
- When scarning maternal uterine arteries in the first timester, there are unlikely to be any tetal safety implications as long as the embryofeus lies outside the Doppler ultrasound beam.

Approved January 27, 2011

WFUMB Policy on Live Scanning at Commercial Exhibitions

While WITURG does not object to live scanning at WITURB meetings, the involvement of pregnant women, children, or invasive scanning is not acceptable. In addition, the use of corporate employees to perform scans is acceptable, but such activities should not be considered educational. Scanning by physicians and/or betrinologists can be considered educational, if handled in an educational setting.

Approved September 4, 2010



WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY

AIUM - AFSUMB - ASUM - EFSUMB - FLAUS - MASU

Affiliate Highlights

AIUM—Membership has grown by more than 6.5 % over the past 12 months and in nove at over 6,961 members are in move at over 6,961 members as of June 30, 2011. AIUM's professional networking sits, autonomunities not is home to the 15 AIUM Communities and special reterest groups. The number of registered users has grown to over 1000. Over 400 active discussions are currently taking place. Two new special interest groups have been established. Ultrasound in Medical Education and Ultrasound in Global Health, AUM maintains an active presence on Eacebooktie with over 6,300 fains who receive regular AIUM posts in their newsfeed. Additional social presences are maintained on Twitter, RSNA's Bastistonsky, and You You.

AlUN's 2012 Annual Convention: March 29-April 1, 2012, Phoenix, AZ. Abstract submission deadline is September 28, 2011.

In early May, Alfred Abuhamad, Harvey Niserbaum, and Carmine Valente spoke at the first world congress of the Society of Utrasound in Medical Education. The congress brought physicians from around the globe with a special interest in utrasound and its value in medical education. continued at www.nfurmb.org.

FLAUS—The Latin American Federation of Ultrasound in Medicine and Biology (FLAUS) has had a very active participation in the last two years, realizing practical and theoretical courses of Ultrasound in all over Latin America. It has been a hard and extensive work with an imposition through the order of attendees to these meetings. The WPUND Latin American Education Project has been very active so, supporting and co-organizing scientific activities in Venezuela and Brazil.

We have organized courses that have been imparted in Bolivia, Paraguay, Panamá, Guaternala, Uruguay, Puerto Rico and Costa Rica. We have one new affiliated National Society to FLAUS: The Ultrasound Society of Bolivia.

These courses served as base to promote in all these countries the 150 Congress of the Morld Federation for Ultrasound in Medicine and Biology (WFLMB) to take place in Vierna and allowers the ideal scene for the promotion of the congress of FLAUS 2011 carried out in Asuncion, Pasiguay in June 2011. This event had an attractive academic program, successful cultimation, and active academic program, successful cultimation, and acver Latin America with 54 international lectures who discussed during 3 days, important areas of Ultrasound...continued at www.vfumb.or.

AFSUMB—AFSUMD has 15 member societies of Bangladesh, Cambodia, China, Chinese Taipel, Hong Kong, India, Indonesia, Japine, Korea, Mongloin, Mallaysia, Pikatan, Philippine, Singapore, and Thaland, and 16655 members in 2010. The 6th AFSUMB congress was held in New Dehl, India, on November 18-21, 2010 successfully. Excellent 4 day scientific programme was formulated, which were consisted workshops, lectures, symposis, free papers and so on And the educational activates of the AFSUMB workshop was organized in Indonesia on 5-7 November 2000, and 8th AFSUMB workshop was in Usanbastor, Mongolia on 5-7 August 2010 in 163 participants. The 6th workshop will be held in Ball, Indonesia in 2011. The workshop will be held every year to diffuse the utassound knowledge and examination techniques in education. The WFUMB Assan education project 2010 was explained in the countrier medicip and under consideration in some countries. The affiliated societies in Asia made meeting in each countries one or more times per year.

The AFSUMB official journal of Journal of Medical Ultrasound was quarterly published as in the past. We will be printed volume 18 in 2011. Some AFSUMB member societies made scholarships to other AFSUM members; those are confinued in SISIM, KSUM and CTSUML. confinued at laws without 50.

EFSUMB—EFSUMB has a membership of aimest 20,000 members from 30 different countries making EFSUMB the largest Society in VFSUMB, 2011 has been an active year for us and our website <u>www.efsumb.org</u> is a good place to start for aimpre unfamiliar with the changes alloot in EFSUMB. The statistics of the velocate viewing have been increasing dramatically and not just from our member countries but workside.

The European Course Book has attracted a lot of this interest. There are currently 17 chapters online which can be accessed and downloaded by anyone. These and other chapters will be published in Autumn 2011 for sales at our annual Congress and large scientific meetings in Europe. The book will be non profit making and available on our website at a reasonable proc. This book in its entirely will be found on the EFSUMB Educational Portal which has receively been faunched on our website. The interfact is to offer educational material to anyone with access to the internet. The successful Case of the Month, Guidelines, Recommendations, teaching videos, EURO-SON School presentations, and more, can all be found here. _confined at www.wilmbox.

MASU—The WFUMB CDE is an important means through which MASU operates to conduct ultrasound training courses for applicants from Mick, who are either sponsored by WFUMB or have individual private sponsors ship The CDE is supported in its training activities by WFUMB and MASU in addition to other sources of support. The main activities of the CDE are short reference courses (1-3 days) and formal ultrasound course (Degrees, Diploma and Certificate). Within the last they speak, the CDE has held 4 short referesher courses, and continues to conduct formal ultrasound courses at certificate, diploma and degree levels. Currently, here are up 160 students are enrolled for

The COE holds a minimum of 2 refresher courses per year, as per requirement of VMFUMB. Between January 2009 and August 2010, 4 courses were held. Paricipants were from several African countries namely, Uganda, Kenya, Taruania, Zambia, Sudan, Rwanda.

Challenges—The upheavals in north Africa and middle east was a great handicap during the last 8 months...continued at www.wfumb.org.



"At printing time, a report from ASUM was unavailable. Updates will be displayed on the MFLMS website.



WFUMB 2011: In Appreciation

WFUMB extends its thanks and appreciation to the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) for its role in organizing WFUMB 2011.

A special thanks to the Austrian Society for Ultrasound in Medicine for their hospitality in organizing WFUMB 2011 in such an excellent location as Vienna, with its welcoming people, supporting a socially enjoyable and memorable Congress.

Univ. Prof. Prim. Dr. Gerhard Mostbeck, chairman of the Organizing Committee of WFUMB 2011, is to be commended for his outstanding contributions and service in organizing WFUMB 2011 and for generating an exemplary scientific program.

WFUMB's primary mission is to expand the opportunities for ultrasound practitioners throughout the world to participate in originary and newly developed educational programs. Through events such as WFUMB 2011, the WFUMB Council, in partireship with our member sociedes, is able to reach our collective goal of raining the level of patient care by sising the level of utrasound education worldwide.

Thank you to all those who joined us in Vienna for WFUMB 2011, bringing together the latest aspects of ultrasound education and equipment.

The first "World Congress of Ultrasound" was held in Vienna in 1969. At that time, 700 international participants presented over 190



WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY

AIUM ~ AFSUMB ~ ASUM ~ EFSUMB ~ FLAUS ~ MASU



Save the Date:

WFUMB 2013 São Paulo, Brazil May 2-5, 2013

WFUMB 2015 Orlando, USA March 21-25, 2015

Our Affiliated Organizations

- American Institute of Ultrasound in Medicine (AIUM)
 www.alum.org
- Asian Federation of Societies for Ultrasound in Medicine and Biology (AFSUMB) www.afsumb.org
- Australasian Society for Ultrasound in Medicine (ASUM) www.asum.com.au
- European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) www.efsumb.org
- Latin American Federation for Ultrasound in Medicine (FLAUS) ww.flaus2011.cintegral.com.py
- Mediterranean and African Society of Ultrasound (MASU) www.masu-ultrasound.com

DID YOU KNOW

WFUMB 2011, the 13th World Congress of the WFUMB, was held in conjunction with the 35th Dreilandertreffen-ULTRASCHALL 2011, the 35th joint meeting of the Austrian, German and Swiss Societies for Ultrasound in Medicine and EU-ROSON 2011, the 23rd Congress of EFSUMB, one of the foremost gatherings of ultrasound experts in the history of ultrasound.







WORLD FEDERATION FOR ULTRASOUND IN MED

Reports from WFUMB Affiliated Organizations

■ EFSUMB



EUROPEAN FEDERA-TION OF SOCIETIES FOR ULTRASOUND IN MEDI-CINE AND BIOLOGY

The office of EFSUMB has moved from Bromley in

the periphery of London to the centre of London. We have rented an office from the British Institute of Radiology at a reasonable cost and I want to thank the Past President of EFSUMB, David Evans for his successful negotiations with BIR.

EFSUMB today is in a healthy and stable position. The membership of EFSUMB increases steadily and will soon reach 20,000 members, so EFSUMB is one of the biggest interdisciplinary medical societies. Our financial condition allows us to support further educational activities.

One major aim is to concentrate on the individual benefits of being an EFSUMB member. At the end of May the Euroson 2008 was held in Timisoaro in the western part of Romania With a total number of more than 2000 participants this congress, which was held in conjunction with the meeting of the Romanian Ultrasound Society, was a tremendous success. Prof. Ioan Sporea and his team really organized a remarkable event. As we know ultrasound congresses are going to have a more and more educational background. But also new science was presented especially dealing with contrast agents. In this area ultrasound gets a giant boost. We all were impressed be the tremendous hospitality of the Romanian organizers. Both the Romanian Ultrasound Society and EFSUMB have supported young authors. To encourage young scientists to present innovative papers the congress fee was waived for all accepted first authors below the age of 35 years.

The next Euroson meeting will be held in Edinburgh, December 6-8, 2009 in conjunction with BMUS. Also at this congress the fee for young first authors below 35 years will be waived.

Another big success is our scientific journal "European Journal Ultrasound / IUltraschall in der Medizin". Due to the efforts of Editors, the Review Board and mainly due to the publishing scientists; the impact factor of the journal continues to rise and is now 2.3. I really hope that we can continue with this success, and EFSUMB will support the journal whenever possible.

The style of the newsletter of EFSUMB has changed, and a "case of the month" has been introduced on the EFSUMB website, frequently visited by our members. Also the newsletter of UIM. has substantially improved.

The Committee for Education and Standardization has also been very active.

Our website recommendations for Ultrasound education are available in most areas.

There are new recommendations from the safety group concerning souvenir scanning and first trimester screening.

EFSUMB started a new series of Euroson Schools regarding contrast enhanced ultrasound. The first successful course was organized in Hannover by H.P.Weskott.

One important goal will be to optimize the communication with our members, so the National Societies are asked to provide email addresses of all their members.

Norbert Gritzmann, EFSUMB President

AFSUMB



ASIAN FEDERATION OF SOCIETIES FOR ULTRA-SOUND IN MEDICINE AND BIOLOGY

The AFSUMB has completed its 6th Workshop success-

fully in the city of New Delhi, India on 22 and 23 November 2008.



AFSUMB Council members and other speakers at the Ultrasound Workshop in New Delhi 2008.

The following AFSUMB Speakers attended the program as resource personnel in New Delhi November 2008:

Dr. Cheng Wen Chiang-Taiwan, AFSUMB President

Dr. Byong Inh Choi-Korea, AFSUMB Immediate-Past President

Dr. Masatoshi Kudo-Japan, AFSUMB President Elect

Dr. C. V. Vanjani-India, AFSUMB Vice Presi-

Dr. Seung Hyup Kim-Korea, AFSUMB Secre-

Dr. Yi Hong Chou-Taiwan, AFSUMB Treasurer Dr. Kanu Bala-Bangladesh, AFSUMB Education Committee Chairman

Dr. Wilaipom Bhotisuwan-Thailand, AFSUMB Councilor

Dr. H. Sidharta-Indonesia, AFSUMB Councilor Dr. Musarrat Hasan-Pakistan, AFSUMB

Councilor
Dr. Ki Whang Kim-Korea, AFSUMB Councilor
Dr. Yung-Liang Wan-Taiwan, AFSUMB
Councilor

Dr. T. P. Baskaran-Malaysia, AFSUMB Councilor

Dr. Dorita P. Evangelista-Philippine, AFSUMB Councilor

Dr. Shiro Kozuma-Japan, AFSUMB Web-site Editor

Dr. K. Y. Leung-Hong Kong, President HKSUM



WORLD FEDERATION FOR ULTRASOUND IN MED

■ MASU

MEDITERRANIAN AND AFRICAN SOCIETY OF ULTRASOUND

MASU was born in 1986, so 2006 is the 20th Anniversary of MASU.

The MASU 2006 International Congress was a joint meeting with Tunisian Society of Radiology for economic reason.

Contrast Agent in Poor Countries, what are

The Congress included 280 participants, coming from Morocco, Libya, Mauritania, Kenya, Zambia, Uganda, Egypt, Syria, Lebanon, Tunisia, Canada, France, Italy, Germany, Belgium, Switzerland and Spain. 67 lectures, 60 free oral presentations and 164 poster were presented. The congress was a great

The MASU 2006 Congress was sponsored by WFUMB, WHO, SFAUMB, SIUMB, the National Office of familial Planning, the National Radiation Protection Center and the Tunisian Ministry of Public health. His Excellency the minister was at Jerba for 2 days during the congress.

The next International MASU Congress will be held in Marrakech, Marocco in June 2008 in conjunction with the International Congress of Radiology. The WFUMB Council will meet during the congress, a good occasion to promote the collaboration with the International Society of Radiology.

H. Charbi, WFUMB Administrative Councilor

■ WFUMB Center of Excellence (COE)

A Center of Excellence is an institutional center with an expertise necessary to teach and train in medical ultrasound.

The title of a Center of Excellence is given to an ultrasound society and to a particular person or a team of people that can guarantee a continuity in ultrasound teaching.

The number of WFUMB Centers of Excellence The topics were: Ultrasound State of the Art, shall be no more than one or two in each

> The society shall be from a developing country, shall be well organized, have an independent office and have experience on education and international influence.

A COE contract is for a three-year-term. At the end of a three-year term the activity of the center shall be checked and revised by the WFUMB Advisory Board for Centers of Excellence. The contract can be renewed. provided the center has continued teaching in

The Center of Excellence shall help physicians to start ultrasound practice using a general purpose ultrasound scanners and create a basic ultrasound service to the people of the country and possibly of neighboring coun-

The site for a Center of Excellence is decided also from an epidemiological point of view.

Courses should deal with local and regional needs to develop adequate training pro-

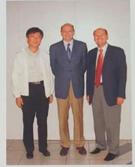
The Advisory Board of the WFUMB Centers of

Dr. Byung Ihn Choi, AFSUMB, Chairman Dr. Stanley B. Barnett, ASUM Dr. Michel Claudon, EFSUMB

At the Executive WFUMB Council Meeting in Bologna, September 16th, 2006 the fourth' WFUMB COE, the

ROMANIAN SOCIETY OF ULTRASOUND IN MEDICIN AND BIOLOGY, TIMISOARA,

was formally established, and a contract was



After having signed the contract for the new COE in

Left: Dr. Byuing Ihn Choi, Chairman of the Advisory Board of the WFUMB Centers of Excellence, Mid: Dr. G. Cerri, WFUMB President, Right: Dr. Joan Sporea, President of the Rumanian Society of Ultrasound.

signed by the President of the Romanian Society of Ultrasound in Medician and Biology, Prof. Dr. Ioan Sporea and the President of WFUMB, Dr. Giovanni Cerri,

Inauguration will be held at the time of 1st WFUMB-COE Workshop to be held in conjunction with The National Romanian Conference of Ultrasonography and Euroson School - Guidelines in Gastroenterological Ultrasound, May 31st - June 3rd 2007. Cralova, Romania.

The WFUMB Centers of Excellence is now

1. AFSUMB

BANGLADESH SOCIETY OF ULTRASONOGRAPHY DHAKA BANGLADESH. Dr. Kanu Bala. Establised February 24th, 2004

DA



AFSUMB

ASIAN FEDERATION OF SOCIETIES FOR ULTRA-SOUND IN MEDICINE AND BIOLOGY

AFSUMB Ultrasound Workshop for the year 2005.

The 3rd Ultrasound Workshop of the AFSUMB was conducted in Hwa-San Hospital, Shanghai, China, April 9-11, 2005.

A total of 22 speeches covering gastroenterology, urology, obl'gyn, emergency cardiology, small parts and breast ultrasound were delivered by 1) local leading experts, including Dr. Zhizhang Xu, Dr. Yi Wang, Dr. Weivel Zhan, Dr. Zhengdong Jin, and Dr. Cai Chang, and 2) speakers from the AFSUMB, Dr. Byung Ihn Chol, Dr. Yi-Yong Chou, Dr. Kanu Bala, Dr. Masatoshi Kudo, Dr. H. Sidharta, Dr. Seung Hyup Kim, Dr. Kittipong Vairojanavong, and Dr. C.V. Vanjani.

This important workshop sponsored by AFSUMB and co-sponsored by the Chinese Society of Utrasound provided a unique opportunity for the AFSUMB members to share their expertise with the Chinese experts. The discussion focused on the recent advances of medical ultrasound technologies. Many local leading experts attended the meeting and provided valuable input.

The meeting was concluded as a very enjoyable and rewarding meeting. We would like to express our hearty gratitude to the Medison Co. Ltd. especially Dr. Seung Woo Lee, CEO of Medison Co., for the invaluable and strong support to the workshop.

AFSUMB's Ultrasound Workshop for the year 2006.

The 4th Ultrasound Workshop of the AFSUMB will be held in Bangkok, Thailand, Dec 14-15 this year.

Tentative speakers are Dr. Itoh, Dr. Kim, Dr. Sidharta, Dr. Pornpim. Dr. Walailak, Dr. Hassan, Dr. Kittipong, Dr. Apichai Vasuratna, Dr. Chantima, Dr. Kudo, Dr. Wilaiporn, Dr. Choi, Dr. Chou, Dr. Bala, Dr. Chiang, Dr. Vanjani, Dr. Senda, Dr. Panruethai

> Cheng-Wen Chiang, WFUMB Administrative Councillor

■ AIUM



AMER CAN INSTITUTE OF ULTRASOUND IN MEDICINE

The American Institute of Ultrasound in Medicine (AIUM) continues to focus

significant attention on several important areas of particular interest to the ultrasound community, such as safety and bio effects, contrast agents, advocating for accreditation and certification, standards and guidelines, and providing unique educational opportunities in ultrasound. In addition to these efforts, the AIUM submitted a proposal for the position of WFUME Secutive Secretary, and would like to thank WFUMB for the Opportunity to Tender for the position. The AIUM is a long-standing member of WFUMB and fully supports its efforts to provide outreach to the international ultrasound community.

The Quest for Approval of Ultrasound Contrast Agents in the United States. Last year, the AIUM established a dialog with the US Food and Drug Administration (FDA) to encourage the review and approval of ultrasound contrast agents. Contrast-enhanced ultrasound (CEUS) is used effectively throughout the rest of the world, especially in the diagnosis and characterization of food liver lesions. The AIUM believes that the lack of availability of CEUS in the United States hinders the delivery of optimal diagnostic imaging to our patients, resulting in an adverse impact on clinical care.

After a March 2006 educational presentation to the FDA on ultrasound contrast agents in the liver, the FDA gave the AIUM an assignment to develop recommendations for consideration for future ultrasound contrast agent clinical trials. In July, the AIUM funded and hosted an Ultrasound Contrast Agent Forum in which 24 individuals representing 7 manufacturing/pharmaceutical companies as well as the AIUM's cinical and scientific community participated. The purpose was to develop recommendations for clinical trials at the FDA for the use of ultrasound contrast agents in the liver. Through input from the forum participants, the AIUM has developed

a set of recommendations for the FDA. The document details appropriate end points for ultrasound contrast efficacy in the liver, examination procedures, equipment variables, safety, and training. The AIUM believes that implementation of these recommendations will decrease variance among clinical sites and increase the likelihood of successful clinical trials. The next step will be to present these recommendations to the FDA. I am very encouraged by the progress we have made in a very short time.

AIUM Responds to Press Coverage on a Study of Fetal Mice Exposed to Ultrasound. A recent study published in the Proceedings of the National Academy of Sciences of the United States of America (PNAS) concluded that fetal mice exposed to ultrasound were found to have small but detectable changes in neuronal migration after ultrasound exposure and called for additional research on larger mammals. Unfortunately, the news mediates that implied that ultrasound may cause brain damage in developing fetuses; eliciting fear in many expecting parents-tobe regarding the safety of ultrasound.

The AIUM swiftly issued a statement to all members, related societies, and the news media which placed the research into perspective and pointed out that the fetal mice exposed to ultrasound were found to have small but detectable effects only after an extended duration of ultrasound exposure. conditions beyond those commonly used in diagnostic ultrasound imaging. The whole brain exposure in the rapidly developing mouse brain used in this study differs significantly from the short duration of diagnostic ultrasound imaging to selected sites in the human fetus. The AIUM also encouraged patients to make sure that practitioners using ultrasound have received specific training in fetal imaging to ensure the best possible results. The AIUM has always advocated the safe and effective use of ultrasound for fetal diagnosis, as evidenced by our official statements on the prudent use of ultrasound and on the practice of performing keepsake videos when there is no medical benefit.

The AIUM Bioeffects Committee monitors and reviews the literature related to the

NE AND BIOLOGY

That is a key question. I think that every educational activity should be followed by an immediate and long term evaluation of results of the program. In the case of courses we have to look for immediate feedback in evaluation forms filled by trainees. This should be done not only to evaluate customer satisfaction, but really in terms of the impact of the course.

The second important aspect is feedback on the long term results of the daily practice of the trainers, and there should be a periodical evaluation on behalf of the WFUMB Education Committee. WFUMB should design a periodical follow-up of the trainers: it should be clearly defined for the future programs.

So, the feedback mechanism is important. Has it already been established by the Education Committee?

Presently we are in the preliminary phase of the preparation of the feedback mechanism: we have to take into account that we are in the first years of the Education Committee activity. But we absolutely need to have this feedback. Until now it has been performed in a very preliminary way in the Asian and African Education Project courses through an evaluation form filled by the participants. These evaluations showed a good satisfaction and included some useful suggestions for future courses.

All in all, I would like to mention that during the course listed above the WPUMB Education Committee members have met about 2000 course participants. The participants were colleagues living and working in various conditions, from Sierra Leone just after the end of a civil war, to far more wealthy areas as China.

Independently from conditions of the country, wherever we were, we found a very lively attention and very motivated people, ready to afford many sacrifices to attend the courses such as long travelling, staying 12 hours a day or more in a conference room, and attend the practical sessions as well. We have always met colleagues well aware of the value of these cultural initiatives which in many occasions made them feel less lonely from a scientific point of view.

Center of Excellence (COE) is a new and important initiative of the WFUMB Education Committee. Will you comment on the COE's? The Characteristics of a Center of Excellence are:

- Aims: Education in Medical Ultrasound in Developing Countries with accreditation
- Establishment: Agreement between WFUMB and a Society affiliated to WFUMB
- Term: Renewal every three years
- Criteria of the Society: The Society shall be from a developing Country, shall be well organized, have an independent office, experience on education and international influence
- Training programs: At least once every year
- Budget: Independent from WFUMB

So, a Center of Excellence is an institutional center in which you can find the expertise necessary to teach and to train in medical ultrasound. The fundamental characteristic of a COE is a geographical position that urges the Center of Excellence to be really important in covering particular areas.

The number of WFUMB Centers of Excellence is intended to be no more than one or two in each continent. A Center of Excellence is given to an ultrasound society and to a particular person or a team of people that can guarantee the continuity of ultrasound teaching over the next years.

It is very important to recall that the COEappointment is a three-year-term appointment. At the end of this three-year term the activity of the center has to be checked and revised by the WFUMB Advisory Board for Centers of Excellence. The appointment can of course be renewed, provided the center has continued teaching in a proper way.

The site for a Center of Excellence is decided also from an epidemiological point of view. Local teams are encouraged to assess and meet their epidemiological need, meaning, for example, that they know best about specific diseases, and therefore, are better prepared for training people especially for those diseases. Courses should deal with local and regional needs to develop sufficient training programmes.

The objectives of the Center of Excellence courses are to help physicians to start ultrasound practice using a general purpose ultra-

sound scanner and to make available a basic ultrasound service to the people of the country and possibly of neighbouring countries.

WFUMB has established an Advisory Board for Centers of Excellence, and the members of this board are: Dr. H.Watanabe (Chair), Dr. E. Buscarini, Dr. Beryl Benacerraf, Dr. H.Lutz.

Below is a list of the WFUMB Centers of Excellence and the past activities:

BANGLADESH SOCIETY OF ULTRASONO-GRAPHY (BSU), DHAKA, BANGLADESH. Dr. Kanu Bala.

Established February 24th, 2004 1st WFUMB COE Workshop: Dhaka, February 24-26, 2004

2nd WFUMB COE Workshop: Dhaka, February 22-24, 2005



WRLIAIS Center of Excellence
The Bangladesh Society of Ultrasonography
2nd Workshop in Dhaka, Bangladesh February 2005
Dr. Kanu Bala, President of the Society, in organizing
WRLIMB teachers, K. Lutz, H. Watanabe, H. Charbi,
K. Vairojaniwong, In a row for a photograph.



WFUMB Center of Excellence
The Bangladesh Society of Ultrasonography
1st Workshop in Dhaka, Bangladesh February 2004
WFUMB teachers H. Watanabe, L. Fernandez, B.J. Choi

MEDICINE AND BIOLOGY

I found that it was very challenging that the trust had been put on me. I was telling myself to demonstrate that that trust in me and the Educational Committee should be worth it. I asked myself and the people in the Educational Committee to prepare plans of activities that were really worthy.

Actually, the first challenge was to nominate members of the Education Committee. The WFUMB President, Marvin Ziskin set me free, so I suggested some colleagues from WFUMB who were really interested and involved in ultrasound education, besides of course with a fair representation from different continents. I was glad to learn that all the colleagues proposed accepted to be member of the committee.

The WFUMB Education Committee thus includes the following members:

Dr. B.J.Choi, Korea; Dr. L. Fernandez, Venezuela; Dr. H. Gharbi, Tunisia; Dr. H. Lutz, Germany; Dr. H. Watanabe, Japan.

What did you see as the initial problems facing world wide ultrasound education?

It was evident there was (and there is) an enormous need for education in ultrasound especially in certain areas of the world. We have simply been working trying to catch suggestions from different continents. From the previous council there existed two educational projects that were already running, the African and Asian projects. The experience I had in the period 2000 – 2003 in Africa was very inspiring for me. So, our wish was to continue this kind of project on a world scale. The idea was to start another project in Latin America (actually started thereafter in 2005) and probably one more in Eastern Europe.

Thereafter, the Education Committee had the intention to prepare a frame for future educational activity of WFUM8, to obviate the very poor uniformity in preparing courses and in accepting proposals from local teams. education process). One scenario would be that

We wanted also to understand what is the philosophy behind the WFUMB scholarship in order to choose the most effective way. In fact we had some discussions about the choice of having fellows supported by WFUMB scholarships in western countries from emerging ones, and it appeared a valuable option for "train-thetrainers" programs. WFUMB is aware that the need for education programmes is different from one nation or society to another. Some have a need for basic education, others have a need for more advanced education. Some nations or societies have a well-defined education strategy; others have a less-defined education strategy. Could you comment on this situation?

This is a very important question we have to face. The level and the need are really different. So what really makes the best final result of our activity is a good interaction between the Education Committee and the local teams proposing different activities. And that is the reason why we firstly have to be aware of the different levels, and secondly have to receive detailed proposals from local teams. This was eg, the case in some Sub-Saharan African countries, where we mainly did basic courses, while in the northern African countries we did more advanced courses, as it was in Asia, where most of the courses were training of trainer's.

How do you think WFUMB can stimulate the world wide education in ultrasound?

WFUMB can stimulate educational activities by:

- organising courses
- creating Centers of Excellence (COE) teaching ultrasound
- · creating local education programs
- · sponsoring of fellowships
- · producing teaching materials
- interact with other organisations, e.g.

Every one of these activities is of course very costly, and we have to take that into consideration; I think that the main interest for WFUMB is to stimulate local growth (a sort of "enzymatic" action, able to initiate and to promote education process). One scenario would be that WFUMB receives a proposal from a local team, for running a course and then tries to interact with the team in a way so that the local team can exploit its own power and its own resources, and succeed in the best way possible. The final result should be the growth of a local team that has matured thanks to this collaboration.

So, the process of a course preparation should

start with a proposal from a local team which has to be evaluated and weighed (and not only from a point of view of feasibility: I am thinking for example about the aspects of safety that we had to face in the last few years with terrorism).

The first matters to be solved for a local team is to evaluate the level of courses needed, educational facilities available and medical professionals being able to collaborate and teach. The education level is of course depending on local reality. The course format should be prepared in collaboration with the WFUMB Education Committee mamphers.

The results of the latest year's courses in places such as Uganda and China have been that the local teams have grown through their activities in the preparation of the WFUMB courses, both in terms of a better collaboration between locals and WFUMB members and between the members of other teams of their country, or neighbouring countries.

What are presently the most important WFUMB education activities?

The present WFUMB activities on education are:

- · Continental education programs
- Center of Excellence (COE) programs
- · WFUMB Scholarships
- · WHO interaction
- Guidelines on education
- · Documents on education e.g. publications



WFUM8 Asian Education Project Beijing, China November 2004 The WFUM8 teachers are from left: M.Kudo, E.Buscarini, B.I Chol, K. Vairojanavong

WFUMB Centers of Excellence (COEs)



COE LOCATIONS AND LEADERSHIP

Bangladesh Society of Ultrasonography Dhaka, Bangladesh; Established 2004 Secretary: Kanu Bala

Indonesian Society of Ultrasound in Medicino Jakarta, Indonesia; Established 2011 Secretary, Daniel Makes

Romanian Society of Ultrasound in Medicine and Biology
Trinspara, Romania, Established 2007
Secretary: Ioan Sports

Sociedad Venezolana de Ultrasonido en

Medicina Caracas, Venezuela, Established 2005 Secretary Leandro Fernandez

Uganda Association of Sonography Kempela, Uganda: Established 2004 Secretary Michael Kewoga

COE REQUIREMENTS

Mission: to provide education in medical ultrasound in developing countries, grant recognition to participants after completion of a course, and accumulate ultrasound-related reference materials. Sponsoring Society: The Society sponsoring the COE must be a legally-established organization and partnered with a WFUMB federation. It must be located in a developing country and possess an independent office with sufficient past experience in ultrasound education. Also it must have the ability to attract trainees, not only from its own country, but also from surrounding countries. COE Responsibilities: The COE shall be respon-

sible for conducting annual educational programs at least once a year and divided into two tracks: one for ultrasound practitioners and one for ultrasound educators.

WFUMB Leadership 2009-2011

A SPECIAL THANKS TO THE WFUMB LEADERSHIP FOR THEIR 2009-2011 TERM OF SERVICE

Executive Bureau

Michel Claudon (France - EFSUMB)

President-Elect: Masatoshi Kudo (Japan - AFSUMB)

Vice President 1:

eantro Fernandez (Vanazuela - FLAUS)

Vice President 2:

Ronald Benzie (Australia - ASUM)

David Evans (United Kingdom - EFSUMB)

Beryl Benacerraf (USA - A/UM)

Immediate Past President:

Giovanni Cerri (Brazil - FLAUS)

Administrative Councilors

Joshua Copel (USA - AIUM) Norbert Gritzmann (Austria - EFSUMB) Michael Kawooya (Uganda - MASU) Soung Hyup Kim (Korea - 4FSUMB) Roberto Moncayo (Ecuador - FLAUS) Fergus Scott (Australia - ASUM)

Co-Opted Councilors

Byung Choi (Korea - AFSUMB) Hassen Gharbi (Tunisia - MASU) Barry Goldberg (USA - AIUM)

Journal Editor (UMB)

Christy Holland

The addition of a Center of Excellence in areas such as Ethiopia, Mongolia, Paraguay, or Fiji would greatly enhance the level of educational expertise in rural areas throughout the world.

WFUMB Welcomes Indonesian Center of Excellence

First Session Held February 12-13, 2011

WFUMB's 5th COE came into existence on February 12, 2011 during the Indonesian Society's Ultrasound Ses-sion, February 12-13, 2011.

The signing was held in conjunction with the 6th Annual Meeting of the Indonesian Society of Oncology Imaging (ISOI) February 12 - 13, 2011.



Daniel Makes, the COE Secretariat signed the contract with Byung Ihn Choi COE Advisory Council Chair (pictured above).

The first workshop of the COE was entitled "Hepatobiliary and Pancreas Choi and Masatoshi Kudo represen WFUMB at the meeting, which attracted over 200 participants.

The COE will be holding several courses in the coming year with topics planned for color Doppler and musculoskeletal ultrasound.



A NEWSLETTER PROVIDING REPORTS AND HIGHLIGHTS OF WFUMB'S WORLDWIDE EDUCATIONAL ENDEAVORS

- Education Projects: Asia, 2 Africa, Latin America

> - Centers of Excellence 3 - WFUMB Leadership

- Making a Difference 4 Education Committee Brainstorming -- WFUMB Committees

> - Supporting Local Programs 5 - President's Farewell

- CEUS Liver Guidelines - New Safety Statements 6 - UMB Impact Factor Rises

- Affiliate Updates 7 WFUMB2011: In Appreciation

The Value of Your Membership:

Does US\$1.50 really make a difference?

WFUMB's five centers of excellence, such as its most recent center in Jakarta, Indonesia, provide a key resource in the ultrasound training of local medical practitioners.



WFUMB collects dues from its six affiliates—A/UM, AFSUMB, ASUM, EFSUMB, FLAUS, and MASU on the order of US\$1.50 per member. The funds are then applied to the various educational efforts organized by WFUMB volunteers and leadership. At a recent Education Committee meeting, the results of our funding were clearly apparent. WFUMB's various Centers of Excellence (CCEs). located in Bangladesh, Uganda, Venezuela, Romania, and Indonesia, combined, have put on 24 annual workshops since 2004 and have 25 years of cumulative

experience in providing ultra-

In addition to the education offered through the COEs, WFUMB sponsors educational projects which target three emerging regions: Africa, Asia, and Latin America. Each regional activity is coordinated through a WFUMB officer or Africa, Byung Ihn Choi in Asia, and Leandro Fernandez in Latin America.

WFUMB participates in the WHO/HINARI project, providing free WFUMB journal subscriptions in electronic format to

needy centers in developing and

WFUMB IS DEDICATED TO THE ADVANCEMENT OF ULTRASOUND BY ENCOURAGING RESEARCH, PROMOTING INTERNATIONAL COOPERATION, DISSEMINATING

SCIENTIFIC INFORMATION, AND IMPROVING COMMUNICATION AND

UNDERSTANDING IN THE WORLD

The Global Ultrasound **Equipment Donation Foundation** (GUEDF), organized by Education Committee Chair Barry Goldberg, provides a mechanism for installing ultrasound machines in needy centers in 4, "Making a Difference?" for a first-hand accounting of the value these machines deliver

WELME's nowest initiative developing a set of e-learning modules to aid in ultrasound



WORLD FEDERATION FOR ULTRASOUN

Message from the Secretary

At the last WFUMB Administrative Council Meeting, it was decided to continue the production of a WFUMB newsletter. We hope that the new name, ECHOES, the content, and the new layout of the newsletter will attract the approximately 50,000 individual WFUM8 members as well as the many international institutions. The aim of ECHOES is to provide information about recent activities of the WFUMB. This first issue of ECHOES will, for economic reasons, be modest in size. But we hope to be able to expand the number of pages in future issues in order not only to inform, but also to initiate worldwide activities in the field of medical ultrasound, for example through scientific discussions.

On behalf of the WFUMB Nevoletter Committee I strongly urge all members of WFUMB who are interested in international communication on medical ultrasound to contact me to discuss professional communications that may be relevant for publication in ECHOES. And please do not hesitate to contact me whenever you believe that you have information that may be of interest for ECHOES. We hope that you will benefit from the present issue of the nevsletter, and that you will work for and collaborate with us on the editing of the coming issues.

ECHOES will initially be published twice a year. Hopefully, this will be expanded to three times a year in the near future.

S. Hancke, WFUMB Secretary



WFUM8 President Himki Waranabe, fac

■ Message from the President

Proposal for the establishment of WFUMB Centers of Excellence

WFUMB was established in 1973. The first decade was dedicated mainly to organizational activities, forming a network throughout the world. Now WFUMB has developed remarkably, with approximately 50,000 members fron 50 countries. I am not aware of any organization other than WFUMB with a design plan on such a grand scale that the whole world is covered by six area federations, each consisting of many national bodies.

In the second decade of WFUMB's history, two important projects were started. One was on safety in ultrasound and the other on the history of ultrasound in medicine and biology. The first stage of the safety project has been completed with the presentation of WFUMB safety reports, based upon discussions in many seminars and symposia. Recently, it has proceeded to the next stage, which deals with the safety of contrast media.

The history project is coming into its last stage, assembling papers on the history of each specialty, which have already been published in the UMB journal. In addition to a review by a historian All WFUMB members will reap the fruit of this labor in the form of a CD-ROM that will be distributed at the WFUMB 2003 Congress in Montreal.

An important third project of WFUMB is education. During the beginning stages of WFUMB, this was not taken very senously, because the federation members consisted only of societies in well developed countries.

With the expansion of WFUMB, however, education has become an urgent and important matter, because many societies in developing countries are now affiliated.

Responding to this need, WFUMB organized the African Cooperation Group on Education in 2000, giving courses in Nairobi (Kenya). Kampala (Uganda) and Moshi (Tanzania). Also the Training for the Trainers program was held by the Asian Cooperation Group in Dhaka (Bangladesh) in 2002. These activities were very successful, but are just a beginning. Our efforts for education should be steady and on-going, for that purpose, we need some permanent bases located in developing areas. This idea is the WFUMB Centers of Excellence, which we propose here.

According to our present plan, centers will initially be established in Africa and Asia, because we already have some experience in these areas through the courses held in the past. In the future, probably South America and Eastern Europe will be the possible candidates. WFUMB may appoint as centers appropriate national bodies affiliated with WFUMB in developing countries, and may support them financially and by providing teachers. Each center may periodically organize the necessary courses or seminars for trainers in the surrounding countries, using the name WFUMB Center of Excellence.

I hope that each member of WFUMB will consider this proposal and give us suggestions or comments, so that we can make this the best possible program.

H. Watanabe, WFUMB President

■ Message from the Treasurer

I am pleased to report that the World Federation of Ultrasound in Medicine and Biology remains in sound financial condition in spite of the current financial problems throughout the world.

Newsletter AFSUMB

No 4

Presidential Report

Ladies & Gentlemen, Dear colleaques of The Asian Affiliation of Societies of Ultrasound in Medicine and Biology:

Amidst the serious economic crisis we passed the year of 1997. Every society might be struck it effect but fortunately all safely entered the new year.

Last year we welcome the reaffiliation of the India Society after its temporal termination. We hope he will contribute much more for our affiliation.

The secretary general Dr. Chiba have received the application form of affiliation from the Phillipino Society of Ultrasound. It will be offered to the next council meeting at Taipei.

The last council meeting was held at Buenos Aires during the convention of WFUMB from August 29 to September 5.

Since the long distrance of Angentina from Far East and the economic crisis, many of our councillors were not able to attend this meeting. The participants were Dr. Hiroki Watanabe, Dr. Yoshihide chiba, Dr. Byung-Ihn Choi, Dr. Masatoshi Makuuchi, Dr. Dr. Kouichi Ito and Dr. Hsi-Yao Chen.

The congress of WFUMB was very successful with many South Americans members and the language was by the Spanish, with instantaneous translation. We were very much impressed that the participants in each session were jammed.

From Chinese Taipei Society, they had about 20 persons to participate this meeting.

In this meeting Dr. Watanabe had a celebration meeting of his 30 year contribution for the Urological ultrasound.

From Japan, Dr Ito, editor in Chief of the Journal of Japan Society of Ultrasound in Medicine, joined the AFSUMB council meeting as an abserber.

At the council meeting the publication of the official journal of AFSUMB came up as an Agenda. JMU (published now from Chinese Taipei Society) had been considered as one of the candidate since 2 years ago at Beljing. But Journal of JSUM also has been recommended and expected as a powerful condidate.

Dr. Choi emphasized the condition for the official journal should be that the language used must be in English. Dr. Hsieh emphasized that if JMU is appointed as official journal, for the publishment principally AFSUMB needs not burden for the financial charge for the publication. But subscriber will be charged about US\$ 60.

Dr. Ito promissed to respond Japanese attitude after the coming meeting of Journal of Japan Society of Ultrasound in medicine.



WFUMB NEWS

WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY

Volume 4, No. 2

July, 1997

Presidential Message -

Barry B. Goldberg, MD

Since my election as President of the World Federation of Ultrasound in Medicine and Biology in 1994, I have seen a significant increase in the utilization of ultrasound throughout the world. It is now estimated that more than one out of every four imaging studies in the world is an ultrasound examination. The dissemination of ultrasound information on a worldwide world. We, as an organization, have

nar and 3-D imaging, endoluminal ultrasound, and contrast agents. With this rapidly increasing pace of development has come a recognized need for improving worldwide education. The world meeting is but one example of this concept of disseminating information. Our organization has been active in working with all the national and regional ultrasound societies in encouraging the dissemination of information with emphasis on raising the level of ultrasound knowledge, skill and educational capabilities throughout the basis has led to significant growth of developed a close working relationship



Barry B. Goldberg, WFUMB President, will complete his term of office at the conclusion of the VIII World Congress of Ultrasound in September.

"It is now estimated that more than one out of every four imaging studies in the world is an ultrasound examination. This dissemination of ultrasound information on a worldwide basis has led to significant growth of our organization..."

gional societies throughout the world, with a membership now in excess of 60,000, Our VIII World Congress provides an opportunity for physicians, scientists, and sonographers, as well as manufacturers and others interested in this modality, to come together, present, and learn about the latest scientific advances in our field.

Many new developments have occurred since my election, including advances in color imaging, multi-pla-

our organization, which represents re- with the World Health Organization. This has led, during my tenure, to the World Federation of Ultrasound in Medicine and Biology being admitted cine and Biology in Buenos Aires. Dr. into official relations with WHO in Lutz received his medical degree in

Continued on page 2

Profile -Harald Th. Lutz, MD World Federation President-Elect

Dr. Harald Th. Lutz, current WFUMB President-Elect, will assume the Presidency of the World Federation in September 1997 at the conclusion of the VIII International Congress of Ultrasound in Medi-

Continued on page 4

Highlights

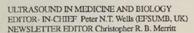
- Presidental Message
- . Profile Harald Th. Lutz, MD
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WFUMB Officers and Councillors

PRESIDENT Barry Goldberg (AIUM, USA) PAST PRESIDENT Morimichi Fukuda (AFSUMB, Japan) PRESIDENT-ELECT Harald Lutz (EFSUMB, Germany) VICE-PRESIDENT I Hiroki Watanabe (AFSUMB, Japan) VICE-PRESIDENT II David Robinson (ASUM, Australia) SECRETARY Soren Hancke (EFSUMB, Denmark) TREASURER Marvin Ziskin (AIUM, USA)

ADMINISTRATIVE COUNCILLORS Alberto Belinski (FLAUS, Argentina) Giovanni Cerri (FLAUS, Brazil) Hsi-Yao Chen (AFSUMB, Taiwan) Sturia Eik-Nes (EFSUMB, Norway) Christopher Merritt (AIUM, USA)

CO-OPTED COUNCILLORS Carlos A. Bruguera (FLAUS, Brazil) Assen H. Gharbi (MASU, Tunisia) Masatoshi Makuuchi (AFSUMB, Japan)





should take this into account when con- exposure levels and durations should sidering the benefit/risk ratio of an ex- be reduced to the minimum necessary amination.

Pulmonary Capillary Bleeding: In considering the significance of ultrasound induced pulmonary red blood cell extravasation and capillary bleeding, one must realize that these effects can also occur as a result of coughing, and can occur spontaneously in neonates. For the most part, unless there is extensive hemorrhage, the clinical significance is negligible, and its occurrence would be difficult to detect. Nevertheless, it is prudent to reduce ultrasound exposure to the postnatal lungs to the minimum necessary to obtain the required diagnostic informa-

B-Mode Imaging; When tissue/gas interfaces or contrast agents are not present, the use of B-Mode imaging need not be withheld because of concern for ultrasound safety. This statement also applies to endoscopic, transvaginal, and transcutaneous applica- cal index, and the classification of ultions. When tissue/gas interfaces or trasound fields.

probability of cavitation. A physician contrast agents are present, ultrasound to obtain the required diagnostic infor-

> Doppler: When tissue/gas interfaces or contrast agents are not present, and where there is no risk of significant temperature elevation, the use of diagnostic Doppler equipment need not be withheld because of concern for ultrasound safety. When any of the above conditions might be present, ultrasound exposure levels and durations should be reduced to the minimum necessary to obtain the required diagnostic infor-

evant quantities describing, for example, the anticipated temperature elevation or the potential for cavitation should be made available to health care professionals. Methods for making this information available include, for ex-honorary member of the Brazilian, Italample, the continuously updated dis- ian and Polish Society for Ultrasound play of a thermal index and mechani-

WFUMB News: We want your news too!

The WFUMB Newsletter is provided as a service to the members of the WFUMB affiliates. The purpose of the Newsletter is to inform you of events occurring in the WFUMB and its affiliated societies. We hope to bring you news of interest from all parts of the ultrasound world. If you have news that would be of interest to your international colleagues which you wish to submit to the WFUMB News, please send it to:

C.R.B. Merritt, M.D., Editor WFUMB Newsletter 7722 Hampson Street New Orleans, LA 70118, USA FAX (1) 504-866-4247 E-mail: merritt@ochsner.org

Education: Diagnostic ultrasound has potential for both false positive and false negative results. Misdiagnosis is far more dangerous than any effect that might result from the ultrasound exposure. Therefore, diagnostic ultrasound should be performed only by persons with sufficient training and education.

Dr. Lutz

continued from page 1

1965 and has been involved with ultrasound since 1970. Dr. Lutz has served as Chairman of the Ultrasonic Laboratory at the University of Erlangen-Nuremberg and Chairman of the Medi-Information about clinically rel- cal Department at the Academic Hospital of the University of Erlangen-Nuremberg. Dr. Lutz is past President of DEGUM and the European Federation of Societies for Ultrasound in Medicine and Biology. He is also an in Medicine and Biology. Since 1972, Dr. Lutz has authored numerous publications on ultrasound.



WFUMB NEWS

WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY

Volume 6, No. 1

Summer, 1999

President's Report Harald Lutz, M.D.

M eetings of the WFUMB Administrative and Executive Councils were held in conjunction with the ASFUMB Congress in Taipei on October 27-28. 1998. The WFUMB Executive Council also met during the AIUM in San Antonio, Texas, USA, on March 17th 1999. I would like to offer some highlights of these important meetings.

On behalf of WFUMB, I would like to again express my gratitude and appreciation to Dr. Belinski and his colleagues for their efforts for est in the formation of courses and WFUMB '97 resulting in an out- training activities. It was agreed that standing World Congress in Buenos the basis of a successful outcome of Aires. I would also like to thank Dr. the promotion of ultrasonography in H. Y. Chen, Taipei, and the mem- Africa is the recognition of key perbers of ASFUMB for their hospitality during AFSUMB' 98. Finally, coupled with plans for the organiza-I would like to acknowledge Drs. Goldberg and Ziskin for their successful negotiations with AIUM in selecting Montréal as the venue for WFUMB in 2003.

During our recent meetings, the Administrative and Executive Councils reviewed plans for WFUMB 2000 in Florence. The Council also approved participation of WFUMB in a WHO Conference on Education and Training in Diagnostic Imaging from May 31 to June 3, 1999, in Geneva.

In my remarks to the Council, I stressed that WFUMB should be more visible, and that increased information from the representatives of affiliated societies is needed. Another topic receiving much emphasis in council discussion was the importance of education and training in ultrasound. Methods to utilize WFUMB resources to improve the availability and quality of training, particularly in developing countries, were discussed at length.

Interest continues in the promotion of ultrasonography in Africa. WFUMB has affirmed its willingness to support serious initiatives from colleagues who have an inter- emments. An educational course inlocal medical professionals and gov-



H. Lutz, M.D., WFUMB President

volving African organizations including WAMUS, UGASON, and MASU has been proposed. In addition, a session on education and training in developing countries in sons from the African continent Africa is being planned to take place during the World Congress in tion of societies and collaboration of Florence next year. Through its Continued on page 2

Highlights

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Visit WFUMB on the World Wide Web www.wfumb.org.au

ASFUMB '98 meets in Taipei

The 5th Congress of the Asian Federation for Societies for Ultrasound in Medicine and Biology, ASFUMB '98, was held in Taipei from October 23-27, 1998. The Congress organizer, the Chinese Taipei Society of Ultrasound in Medicine (CTSUM) heralded the Congress as very successful despite the Asian economic crisis. Having a membership of 6000, CTSUM is the second largest society of its kind

Nearly 1,500 delegates from 26 countries, including over 100 overseas speakers, attended the Congress. The number of Taiwanese participants was significant, reflecting the continuing need among local physicians for advanced and updated knowledge on ultrasound. Their substantial participation played an important role in the success of the Congress. A total of 60 symposia were held during the 4day Congress. These included workshops covering topics such as threedimensional ultrasound in OB/ GYN, Down syndrome screening, echoenhancing contrast agents, and bioengineering. In addition, prior to the start of the Congress, the International Breast Ultrasound Seminar was held by the International Breast Ultrasound School under the auspices of the Congress. Much positive and encouraging feedback was received from these workshops.

Besides the approximately 200 lectures given by internationally renown scholars, over 200 free papers and posters were presented at the Congress. Representatives of CTSUM, ASUMB, and WFUMB gave addresses at the opening and closing ceremonies, including Professor Hsi-Yao Chen (Past President of ASFUMB), Dr. Yi-Hong Chou as President.



ASFUMB and WFUMB Council members are shown during the 5th Congress of the Aisan Federation of Societies for Ultrasound in Medicine and Biology. The meeting, held in Taipei, October, 1998. was attended by over 1,500 delegates from throughout Asia.

(Past President of CTSUM and Secthe Organizing Committee. Professor Harald Lutz (President of Goldberg (Past President of Subramania, host of ASFUMB 2001 in Malaysia, also addressed the Congress. Twelve members of the WFUMB council participated in the scientific program of the Congress, presenting lectures on a variety of clinical topics.

Both ASFUMB and WFUMB councils met during the Congress. The representatives and members of the executive committees of both organizations expressed their appreciation of the impressive organization and hospitality of the Congress organizers. A new executive committee for ASFUMB was elected during the General Assembly. Professor Hiroki Watanabe was selected to succeed Professor Hsi-Yao Chen

Congress participants were retary General of ASUMB '98), Pro- treated not only to days filled with fessor Fon-Jou Hsieh (Chairman of excellent lectures, workshops, and demonstrations, but also enjoyed ASFUMB '98), Professor Hiroke outstanding social evenings. A re-Watanabe (President of ASFUMB), ception and gala dinner featuring the superb Chinese and Western cuisine WFUMB), and Professor Barry of Taiwan were greatly enjoyed by attendees. Additional evening func-WFUMB). Professor Raman tions were hosted by Aloka, Hewlett Packard, and WFUMB, adding to the friendly and cheerful atmosphere among Congress partici-

> Also actively participating in the Congress were leading ultrasound companies. Convenient and attractive technical exhibits were busy throughout the Congress, demonstrating the latest advances in instrumentation. Among the companies exhibiting were Acuson, Advanced Technology Laboratories, Aloka, B-K Medical, CSIST (3rd Ultrasound Project), General Electric Mediland Medical Systems, Hewlett Packard, Medison, Olympus, Schering, Siemens. Toshiba Medical Systems, and



WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY

AIUM - AFSUMB - ASUM - EFSUMB - FLAUS - MASU

Affiliate Highlights

AIUM—Membership has grown by more than 6.6 %, over the past 12 months and is now at owe 8,961 members as of June 30, 2011. AIUM spreads not seen that the best as of June 30, 2011. AIUM professional networking site, alternormuratios org is nome to the 15 AIUM Communities and special interest groups. The number of registered users has grown to over 1600. Over 400 active discussions are currently taking place. Two new special interest groups have been established. Ultrasound in Modeal Education and Ultrasound in Oktobil Health. AIUM marketars an active presence on Esceboostip with over 6.300 fans who neolive regular AIUM posts in their newford. Additional social presences are maintained on Twitter, RSNA's RadiSounds, and You-Tahe.

AlUM's 2012 Annual Convention: March 29-April 1, 2012, Phoenix, AZ. Abstract submission deadline is September 28, 2011.

in early May, Alfred Abuhamad, Harvey Nisenbaum, and Garmine Valente spoke at the first world congress of the Society of Ultrasound in Medical Education. The congress brought physicians from around the globe with a speci

FLAUS—The Latin American Federation of Ultrasound in Medicine and Biology (FLAUS) has had a very active participation in the last has years, relating practical and theoretical courses of Ultrasound in all over Latin American. It has been a hard and extensive work with an important number of attachdess to these meetings. The VFUMB Latin American Education Project has been very active also, supporting and coorganizing silentific activities in Venezualia and Brazzi.

We have organized courses that have been imported in Bolivis, Paraguay, Panama, Gustemala, Uruguay, Puerto Rico and Costa Rica. We have one new efficient National Society to FLAUS: The Ultrasound Society of Bolivia.

These courses served as basis to promote in all thissis countries the 13°C congress of the World Federation for Ultrasound in Medicine and Biology (WFUMB) to take place in Vienna and also were the local scene for the promotion of the congress of EAAUS 2011 carried out in Assucion. Paraguay in June 2011. This event had an attractive academic program, successful cultimation, and an attendance of around 400 physicians from all over Latin America with 45 international lectures who discussed during 3 days, important areas of Ultrasound. Continued at www. which org.

AFSUMB—AFSUMB has 15 member sociatios of Bangladesh, Camboda. China, Chinese Taipei, Hong Kong, India, Indonesia, Japan, Kortea, Mongola, Malaysia, Pakutan, Philippina, Singapore, and Thealand, and 1666 members in 2010. The 9° AFSUMB congress was held in New Debit, India, on November 18-21, 2010 successfully. Excellent 4 day scientific programmes was formulated, which were consisted worsehops, lectures, symposia, free papers and so on. And the educational activities of 7° AFSUMB workshop was organized in Indonesia on 5° ANouember 2000, and 6° AFSUMB workshop was in Ulsambastor, Mongola on 5° A August 2010 in 180 participants. The 9° workshop will be held very last of diffuse the ultrasorular knowledge and examination techniques in education. The WFUMB Asian education project 2010 was explained in the councilor meeting and under consideration in some countries. The efficient opicines in advantage on education. The efficient opicines in Asia made meeting in each countries one or more times or variety.

The AFSUMB official journal of Jeonal of Medical Utrasound was quarterly published as in the past. We will be printed volume 18 in 2011. Some AFSUMB member societies made scholarships to other AFSUM members; those are continued in JSUM, KSUM and CTSUM. continued at www.wilmb.org.

EFSUMB—EFSUMB has a membership of almost 20,000 members from 30 different countries making EFSUMB the largest Society in WFUMB. 2011 has been an active year for us and our website www.elsumb.org is a spood piace to start for anyone unformilar with the changes stool. In EFSUMB. This statistics of the website viewing have been increasing dramatically and not just from our members.

The European Course Book has attracted a kit of this interest. There are currently 17 chapter online which can be accessed and downloaded by arryone. These and other clasplers will be published in Austrian 2011 for sales at our annual Congress and large scientific meetings in Europe. The book will be non-profit meking and available on our website at a reasonable price. This book in the series of the series of the series of the series of the series which has recently been faunched on our website. The inferior in to offer educational method to anyone with access to the intermet. The successful Case of the Month, Cudatilines, Recommendation, stacking videos, EURO-SON School preventations, and more, can all be found here. Continual of www vulners.

MASU—The WFUMB COE is an important means through which MASU operates to conduct untrasound training courses for spotiums from Africa, who are within exponitioned by WFUMD or have individual private a porsion slep. The COE is supported in the training activines by WFUMD and MASU in addition to other sources of support. The main activities of the COE are short refresher courses (1-3 days) and formal ultrasound courses (Degrees, Diploma and 4 short refresher courses, and continues to conduct formal ultrasound courses; the COE has been set 4 short refresher courses, and continues to conduct formal ultrasound courses at confilibute.) Williams with some course and continues to conduct formal ultrasound courses at confilibute, significant and disprese live-els. Currently, there are up 150 students are enrolled for these formal ultrasound courses.

The COE holds a minimum of 2 refresher courses per your, as per requirement of WFUMB. Between January 2009 and August 2010, 4 courses were held, Participants were from several African countries namely, Uganda, Kenya, Tanzania, Zambis, Sudan, Rasanda

Challenges—The upheavals in north Africa, and middle east was a great handicap during the test 8 months, continued at www.wfurnb.org.

Visit www.wfumb.org to view the full report from each affiliate.

"Migrating time, a report from ASUM was unavailable Updates will be sloptayed on the WFUAM separe.



WFUMB 2011: In Appreciation

WFUMB extends its thanks and appreciation to the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) for its role in organizing WFUMB 2011.

A special thanks to the Austrian Society for Ultrasound in Medicine for their hospitality in organizing WFUMB 2011 in such an excellent location as Vienna, with its welcoming people, supporting a socially enjoyable and memorable Congress.

Univ. Prof. Prim. Dr. Gerhard Mostbock, chairman of the Organizing Committee of WPUMB 2011, is to be commended for his outstanding contributions and service in organizing WPUMB 2011, and for generating an exemptary scent

WFLMB's primary mission is to expand the opportunities for ultrasound practitioners throughout the world to participate in organic and newly devel open electrostory programs. Through events such as WFLMB 2011, the WFLMB Council in partnership with our member societies, is able to reach our collective good or raining the level or patient care by raining the level of patient care by raining the level of sound education worksides.

Thank you to all those who joined us in Vienna for WFUMB 2011, bringing together the listest aspects of ultrasound education and equipment.

The first "World Congress of Litrasound" was held in Vienna in 1969. At that time, 700 international participants presented over 190 scientific papers.



Save the Date:

WFUMB 2013 São Paulo, Brazil May 2-5, 2013

WFUMB 2015 Orlando, USA March 21-25, 2015

WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY

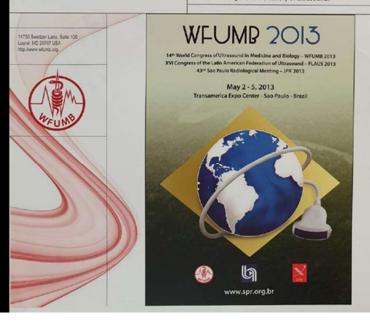
AIUM - AFSUMB - ASUM - EFSUMB - FLAUS - MASU

Our Affiliated Organizations

- American Institute of Ultrasound in Medicine (AIUM)
 www.aium.org
- As an Federation of Societies for Ultrasound in Medicine and Biology (AFSUMB) www.afsumb.org
- Australasian Society for Ultrasound in Medicine (ASUM)
 www.asum.com.au
- European Federation of Societies for Ultrasound in Medicine and Biology (EFSUME www.efsumb.org
- Latin American Federation for Ultrasound in Medicine (FLAUS)
 www.flaus2011.ointegral.com.py
- Mediterranean and African Society of Ultrasound (MASU)
 www.masu-ultrasound.com

DID YOU KNOW?

WFUMB 2011, the 13th World Congress of the WFUMB, was held in conjunction with the 35th Dreilandertreffen-ULTRASCHALL 2011, the 35th Joint meeting of the Austrian, German and Swiss Societies for Ultrasound in Medicine and EU-ROSON 2011, the 23rd Congress of EFSUMB, one of the foremost gatherings of ultrasound experts in the history of ultrasound.



Through communication, collaboration and education, bring sustainable ultrasound programs to underserved areas in the world



WFUMB Facts

Message from the President

It is with great sadness that we acknowledge the passing of 2 true glants in the field of ultrasound- Professor Peter N.T. Wells and Professor David Cosgrove. Please see "in Memoriam" in this issue of ECHOES.

this state of ECMOS.

On a happier note I look forward to seeing many of you at WFUMB 2017 Talpei (the 16th WFUMB Congress) to be held at the Tabei International Convention Center, Talpei, Talvan, from October 13 to 17, 2017 in conjunction with the 9th Azlan Conference on Utrasound Contrast Inegging and the Chinese Talpei Society of Utrasound in Medicine Annual Convention (new...wfumb2017.org.) The meeting will highlight the latest cutting-edge knowledge and innovative skils in medical utrasound, such as utrasound-assisted techniques for interventional procedures, real-time 1-dimensional utrasound, contrast utrasound, estatography, specific tracking etc. On Monday, Ontotter to Utrasound in Medical Education Program utrasound, edit of the Contrast of the Co

tion" (www.wfumb2017.org/about_the_program.php). In addition to the meeting, hope you will take the time to enjoy all the wonderful sites and activities of Taipei and if you are fortunate enough to have the time, explore the Island of Taiwan.

Hope you enjoy and take pride in all the WFUMB and each of the member Federation activities and WFUMB Centers of Education (COEs) programs described in this issue of ECHOES.

WFUMB Leadership (2015-2017)

Executive Bureau

President: Harvey Nisenbaum (USA) President-Elect: Christian Nolsøe (Denmark) Vice President 1: Dieter Nürnberg (Germany) Vice President 2: Adrian Goudie (Australia) Secretary: Seung Hyup Kim (Korea)

Treasurer: Jacques Abramowicz (USA) Immediate Past President: Hassen Gharbi (Tunisia)

Administrative Councilors Michael Blaivas (USA)

M. Cristina Chammas (Brazil))
Yi-Hong Chou (Taiwan)
Christoph Dietrich (Germany)
Sudhir Vinayak (Kenya)
Susan C. Westerway (Australia)
Co-Opted Councilors
Byung Choi (Korea)
Leandro Fernandez (Venezuela)

Harald Lutz (Germany)
UMB Journal Editor
Christy Holland, PhD (USA - AIUM)

WFUMB Committees

Archives Committee
Seung Hyup Kim, Chair
Hissian Charbi
Hissian Ch

Congress Committee Adrian Goudle, Chair Soung Hyup Kim Fabio Piscaglia Cristina Chammas Harvey Nisembaum Yi-Hong Chou

Constitution Committee Dieter Nürnberg, Chair Hassen Gharbi Soung Hyup Kim Harvey Nisenbaum Christian Nobae

Collaboration Committee
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Byung Chol
Hassen Gharbi
Odd Heige Gilja
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See Victoravey
Collaboration Advisors
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Giovanni Cerri
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Barry Goldberg Masatoshi Kudo

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Safety Committee Jacques Abramowicz, Chair David Evans J. Brian Fovikles Gall ter Haar Karol Mersal Education Committee
Byung Choi, Co-Chair
Michael Bahira, Co-Chair
Michael Chair
Bahira, Chair
Bahi

Finance Committee Dieter Numberg, Chair Cristina Chemnas Adrian Goudie Soung Hyup Kim Harvey Niseolbaum Christian Nolsee Sudhir Vinnyak Jacques Abramowicz, Ex Officio

Michael Kawooya Sudhir Vinayak

Publications Committee Christoph Dietrich, Chair Michael Blaires Byung Chol Leandro Fernandez Suchir Vinayak Sue Westerway Christy Holland, Ex Officio

Communication Committee Seung Hyup Kim, Chair Yi-Hong Chou (AFSUMB) Michael Blahms (AlUM) Sub Westerway (ASUM) Christoph Diletrich (EFSUMB) Cristina Chammas (FLAUS) Sudhir Yingina (MOU)

Past President Advisory Group Masatothi Kudo, Japan (2011-2013) Mithel Claudon, France (2007-2011) Gloventi Gerri, Frazil (2006-2009) Hiroki Vikatrabe, Japan (2000-2003) Harald Lutz, Germany (1997-2000) Barry Goldberg, USA (1994-1997) George Kosoff, Australia (1992-1945)

WFUMB Statistics (as of May 2017)

Member organizations

93 Countries

52,925 Individual Members

Individual

| | Countries | members |
|--------|-----------|---------|
| AFSUMB | 16 | 19,272 |
| AIUM | 2 | 5,399 |
| ASUM | 2 | 2,064 |
| EFSUMB | 28 | 20,274 |
| FLAUS | 13 | 4,196 |
| MASU | 32 | 1,720 |
| Total | 93 | 52.925 |

WFUMB Activities

ARCHIVES COMMITTEE: The Archives Committee developed WFUMB Digital Archives. It is a collection of historic documents, articles, publications, and photos in digital form and currently it is about 10GB in size. Now it is kept in webhard system (www.webhard.net) and is open to WFUMB Administrative Council and Committees members. The Archives Committee is planning a separate website for WFUMB Digital Archives and will be open to the public by a link to WFUMB main website.

COMMUNICATION COMMITTEE: The role of the Communication Committee is to facilitate communication of WFUMB and WFUMB-affiliated organizations, to maintain the WFUMB website up-to-date, and to publish the WFUMB Newsletter "ECHOES" regularly in intervals as WFUMB Administrative Council decides. WFUMB website (www.wfumb.org) was renewed in November 2016 in a visitor-friendly, and mobileresponsive platform. WFUMB newsletter ECHOES, which was not published regularly for a while, was also revived in November 2016 as ECHOES #16 and will be published regularly twice a year.



CONGRESS COMMITTEE: The Congress Committee has been pleased to watch the excellent work being done for the preparation of WFUMB 2017 Taipei, and will use this as the basis for future congresses. The report of WFUMB 2017 Taipei is included on a separate page (page 16).

WFUMB 2019 in Melbourne will be held on 5-9 September, 2019 at the Melbourne Convention Center. Preliminary planning has commenced and ASUM and WFUMB look forward to many international delegates to learn and share their expertise.

Expressions of interest for WFUMB 2021 have been received and the winning venue will be announced shortly.

NOMINATING COMMITTEE: The Nominating Committee has it as its purpose to select nominations for the officers of WFUM8 and present these to the Administrative Council in the year prior to the WFUM8 congress. The Nominating Committee selects these nominations from candidates submitted by the Affiliate members. The Committee convened via conference call on 18 April 2017 to discuss the nominations for WFUMB's Elections this year. A list of candidates was unanimously decided and will be presented to the Administrative Council in due time.

WFUMB Activities_continued

PUBLICATION COMMITTEE:

Recent activities of publication committee include the writing of a WFUMB drafting concept which has been accepted and used, e.g., for guideline preparation [for further details see the WFUMB-website].

The following WFUMB-guidelines and good clinical practice recommendations for contrast enhanced ultrasound (CEUS), elastography and safety issues (initiatives in cooperation with representatives of



AFSUMB, AIUM, ASUM, EFSUMB, FLAUS and MASU) have been published in recent years. WFUMB has also recently published two position papers on point of care ultrasound and how to learn gastrointestinal ultrasound. Current activities include a position paper on medical student education. The WFUMB Publication Committee members warmly welcome ideas for future projects including state of the art papers.

COLLABORATION COMMITTEE:

The WFUMB Collaboration Committee is a newcomer at the WFUMB homepage and in this issue of ECHOES. It is, however mostly the name that is new. At our latest Administrative Counsel meeting in Kenya it was decided to change the name of the previous Co-Sponsorship Committee to Collaboration Committee and at the ame time update bylaw 7.5 that describes the duties of this committee. In short WFUMB Collaboration Committee has it as its overall mission to stimulate and initiate collaboration with commercial and non-commercial organizations on mutual ultrasound educational projects to promote the use of ultrasound worldwide. In keeping with this purpose the Collaboration Committee reaches out to professional organizations as well as ultrasound manufactures at congresses and suitable ultrasound events on a slobal scale.

For the third year in a row a committee delegation met with other professional medical organizations and vendors at the worlds largest annual medical congress, RSNA in Chicago. Through a busy 3-days-program a total of 12 personal meetings enabled WFUMB to make dedicated contact and stimulate collaboration with RAD-AID, imaging the World, World federation for Pediatric Imaging, Philips, GE, Bracco, Siemens, Mindray, Neusoff, Toshiba, Hitachi and Samsung, Some contacts quickly develop into fruitful collaboration while others may take some time to mature.

In the first category WFUMB has throughout the last year experienced successful joint ventures around the world, in Brazil Bracco has worked in close collaboration with FLAUS Counselor Cristina Chammas to develop CEUS course enabling hugely important education in the use of the newly Brazil-registered Sonovue ultrasound contrast. In Kenya Philips has collaborated through the WFUMB COE in Nairobi where COE Secretary and MASU President Sudhir Vinayak has lead a most successful midwife-Visicultrasound project. The results prove this to be a great way to utilize tablet-based ultrasound equipment in rural areas and in addition the project produced in a scientific re-

In Nigeria GE and WFUMB COE in Lagos under the strong leadership of Kofo Soyebi is at the bring of start-up of a similar midwife scanning project, only at a much larger scale aiming with time to cover rural areas all over Nigeria. This project utilizes the tablet sized V-Scan Access which was partly developed for this purpose. At the time being intensive training-of-the-trainers sessions are rolled out.

In Ethiopia RAD-AID is collaborating with WFUMB to extend our long-running education activities at Black Lion Hospital in Addis Ababa to run a fits-time-ever full-week ultrasound course in Gondar, the largest city of Northern Ethiopia. WFUMB education activities in Ethiopia is carried out in close collaboration with University of Bergen and NCUG leader, EFSUMB President, Odd Heige Gitja and the Gondar course will run as a joint venture with all three organizations contributing to a hopefully successful event come Cotober 2017.

The WFUMB Collaboration Committee will continue to pursuit our goal and we are eager to collaborate with ultrasound education projects all over the world. Kindly contact us through our website http://www.wfumb.org or WFUMB Administrative Manager, Allie Garza agarza@wfumb.org.



WFUMB-vendor meeting at RSNA



Hands-on session in Ethiopia

WFUMB COEs

Originally "COE" meant "Center of Excellence" and was changed to mean "Center of Education" in January 2015. Currently WFUMB is sponsoring 13 COEs.





WFUMB COEs History -This is an article viewed by Hiroki Watanabe and Masatoshi Kudo

In WHO, Harald Østensen, former medical officer, founded "Global Steering Group for Education and Training in Diagnostic Imaging" and discussed to establish education centers in developing countries in the late nineties, especially in Africa as "African project", led by Harald Lutz and Seren Hancke. Independently from this, Hiroki Watanabe, WFUMB President at the time, moved his specific plan for the establishment of "WFUMB COE", based upon a principle that "WFUMB only gives the name and local societies organize each education center for ultrasound by their own effort" to WFUMB Education Committee Meeting (Chair: Harald Lutz) held in Dhaka on June 6, 2002.

The plan was moved to WFUMB Administrative Council Meeting, held in Montreal on May 31, 2003. The motion was carried and the first COE was established in Dhaka, Bangladesh, on February 24, 2004. This was followed by come Kampala, Uganda (June 8, 2004), which met well with the idea of "African project". Marvin Ziskin, the next President, appointed Hiroki Watanabe as the Chair, Advisory Board for COE Committee in 2004, and he established COE in Caracas, Venezuela (February 6, 2005).

Since 2006, three Presidents including Glovanni Cerri, Michel Claudon, and Masatoshi Kudo appointed Byung lin Choi as the Chair to evolve the system. He established COE in Timisoara, Romania (June 1, 2007), COE in Jaharta, Indonesia (February 12, 2011), COE in Lone, Togo (February 13, 2013), and COE in Lagos, Nigeria (February 13, 2013). Since 2013, President Hassen Gharbi and Harvey Nisenbaum appointed Byung lin Choi and Harald Lutt as Co-chairs of education committee to supervise, monitor and stablized the system of COEs. Threy established in Ulazabatar, Mongolia (July 26, 2013). With the support of Christian Nolssee, Dieter Nürnberg, and Odd Helge Gilja additional COEs in Africa were established: COE in Nairobi, Kenya (January 17, 2014) and COE in Addis Abbaba, Ethiopia (March 17, 2014). Since then additional COE Candidates have been approved: COE Candidate in Asuncion, Paraguay (March 22, 2015); COE Candidate in Asuncion, Paraguay (March 9, 2017) (Mince editing wes done by Byung Inn Choi and Arvey Nilsenbaum)

Comments to this article

Michel Claudon: Thank you for having prepared this summary of the history of the COEs. This document is mainly a factual history document and easy to read to members, and could be fruitfully published in Echoes 217.

Hassen Gharbi: I personally had the chance to be member of this community since 1992, and working with the great names of US planeers. I was one of the flounders of the MASU and since the beginning in 1986 we promoted education in developing countries in Africa, we called it MASU Courses under the auspices at the beginning of WHO then since 1992 under the auspices of WFUMB/WHO. WFUMB has to be proud for this great achievement, the COEs, in developing world. All of us are proud to be involved more or less in this project.

WFUMB COEs

WFUMB COE, Current Status and Future Plans -By Choi Bi and Lutz H, Co-chairs of Education Committee

At the administrative council meeting in Kenya in 2017, two new candidates of WFUMB COE in Khartoum, Sudan, and Chisinau, Moldova, were approved. Therefore, the total number of WFUMBH COE is 13. Current 13 WFUMB COEs are listed and shown on the world map on page 4.

The responsibility of COE is developing training programs, financial administration, and reporting activity every year to WFDMB. The responsibility of COE is developing training programs, financial administration, and reporting activity every year to WFDMB. The responsibility of WFDMB is approval of the name, recommendation of curriculum, recognition of budget, recommendation of teachers, examination and accreditation of the trainers, and advice for management of COEs. The responsibility of the sponsoring society is location in developing country, solid society, and independent office, and experience on education in the past and ability to attract trainers from own and surrounding countries. Annual COE workshops in 2016 and 2017 are summarized in Table 1 and 2 below.

In general, most of WFUMB COEs do their work well. But, the Ethiopian COE is not yet under the umbrella of MASU. MASU has helped to synergize a working relationship between the Ethiopian US society (in the process of registration) and WFUMB. Hopefully the society will soon be operational with the support of WFUMB. MASU diviversity of Bergen, Norway. Togo COE has been revitalized through the hard work of Philippe Arbeille and Director, Lantam Sonhaye (see Togo COE report page 8). Kharboum COE in Sudan was approved in last January and hopefully will be set up in the near future by Dieter Nürnberg and local supporters. Chisinau COE in Moldova was also was approved in last January and hopefully will be established in the future supported by Harald Lutz, Dieter Nürnberg and Romanian COE.

There are three WFUMB COE meetings on the basis of region, including Latin America, Africa & Eastern Europe and Asia, because WFUMB can save expenses of airfare and accommodation of participants for the meeting, and can discuss COE activities in depth and detail. Two WFUMB COE meetings were held in 2016. Asian meeting was held in Kyoto, Japan on May 27-29, 2016, in conjunction with AFSUMB meeting (Figs.1,2). Africa & Eastern Europe meeting

Table 1. COE Workshop 2016

| Country | Date | City |
|------------|-----------------|-------------|
| Bangladesh | Harch 4 | Oheka |
| Uganda | November 4-5 | Kimpala |
| Venezuela | October 6-7 | Caracas |
| Fornaria . | June 23-25 | Cralova |
| Indenesia | 10th ISLW | Medan |
| Tags | September 14-16 | Lone |
| Noegolia | September 15:17 | Ukarbasta |
| Kerya | Nevember 17-18 | Nairoti |
| Dihiopia | Unknown | Addis Ababa |
| Migeria | April 30 | Ligos |

Table 2. COE Workshop 2017

| Country | Date | City |
|------------|--------------------------|--------------|
| Bengladesh | March 3 | Dhaka |
| Uganda | May, October | Kampala |
| Voriezuela | End of September | Caracas |
| Romania | Are: | Cluj-Napeci |
| Indonesia | 100 ISUM | Redan |
| Togo | Narch . | Lorne |
| Pergrits | July 29-29 | Ulsanbaste |
| Korya | May 26-27, October 26-28 | Name |
| Ethiopia | Uninova | Addit Abribi |
| Migeria | April 30 | Lagon |
| Faraguey | March 20 | Coaguatu |

. . .



Fig. 2





Fig. 3



Fig

WFUMB COEs

WFUMB COEs Update

COE, Dhaka, Bangladesh (director, Dr. Kanu Bala)

The 19th VFUMB COE Vorkshop vas held on 3 March 2017, Friday at the Auditorium of the National Institute of Nuclear Medicine and Allted Science (NRNACE), Basegabandhu Shekhi Mughb Medical University Campus, Dhaka, Basegabachu 152 participants attended the undividuo. The Intercipants were very attentive and embussiastic, all through their held eaudtorium vas packed up viril pictopants and there vas pile-drop clance. At the Inauguration Ceremony Prof. Kanu Bala, Director of the WFUMB COE Bangladesh explained the history and present status of the COE.

The topic of the vinckshop vas "Controverses in Pregnancy Ultrasquind". Rine lectures covered some of the areas of fetal anomalies in depth and in broadth. All the most decision server from Brangladesh Society of Ultraspongraphy. Some of the topics were very musch new and untouched. At the last part of the workshop there was a patient and probe session.

Prof. Byung Ihn Choi (Korea) is the Chairperson of the Advisory Board of the V/FUMB COEs and Prof. Kanu Bala (Bangladesh) is the Director young an other leaders is the capital of the proposal of the provider young of the VITUAG COE Banglades). Post, Child played a key ride for the organizing of the viorishop property. He malitatined the quality of viorishop as per requirements of the VITUAG. He has to place a full report of the viorishop page try. He malitatine the quality of viorishop as per requirements of the VITUAG Council. Bangladesh Society of Ultraconography is the host organization.





COE, Timisoara, Romania (director, Dr. Ioan Sporea)

The WFUMB COE Timispara Romania will organize, this year, the Annual Workshop with the topic Gastrointestinal Utrasound (GIUS), on the 2nd of June 2017, in conjunction with the XXth National Conference of the Romanian Society of Utrasound in Medicine and Boology (http://modevents.ro/ Mrs. Lynne Rudd (United Kingdom) will be guests at this meeting.

Also in 10-11 November 2017 the center will organize in Timisoara a Buroson School Course with the topic Elastography, R.J. de Knegt (The Netherland), Matteo Rosselli (United Kingdom), Simona Bota (Austria), Bogdon Procoper (Romania) will be among the inviteds general soing with the members of the center is an Sporea, Alina Poposou, Risman Spirit, Mirela Danila. More Information will be available on the center's website (www.ulctimisoara.no). All those that are interested are welcomed. Also the center is open for everybody that vantus to learn ultrasound or looks to improve their experience.



COE, Nairobi, Kenya (director, Dr. Sudhir Vinayak)

COE, Kenya (director, Dr. Sudhir Yinayak) We had our annual COE conference on 17th/18th November, 2016 which was very successful. The registration had to be dosed at 110 participants as the venue was filled to capacity. Odd Helge was the WFILM8 speaker and all sestions were well attended. The registrants included: Radiologists, Sonographers, Physicians, and Physicists. A wide range of subjects were covered; hence the excellent response from members of the ultrasound society.

CMEs: In collaboration with Kenya Society of ultrasound (KESUMB), regular CME lectures on ultrasound updates take place at the CME: in collaboration with kenyls Society of utrasound (InSUMP), regular CME declares on utrasound updates take place at the CDC with good attendance. Since the last echoes builterin, we have given another 4 electures. Since the CDC with set established, educational activities and "handson experience" have improved skills for practicing Sonographers especially when performing difficult ("hallenging utrasound procedures. The CME lectures are popular and feedback from Sonographers is very positive. Accreditation: As a CDC, we have written a curriculum to provide accreditation for qualified Sonographers. We are still availting approval from authorities to start the accreditation process.

Research: The Visig research project was completed in 2016. The results are very encouraging and this pilot scheme will certainly form the template on which larger projects can be structured. The manuscript entitled, "Training Midwives to Perform Basic Obstetric Point of Care Utrasound in Rural Areas Using a Tablet Platform and Mobile Phone Transmission Technology - A WFUMB COE Project' has been accepted for publication in UMB.









COE, Ulaanbaatar, Mongolia (director, Dr. Sodov Sonin)

During WFUM8 Congress held in Sao Paulo, in 2013, decision to establish WFUM8 COE in Mongolia was made in accordance with the request of Mangollan Society of Diagnostic Ultrasound (MSDU). Then, VMLM8 COE in Nangolla vas established in July 2013 in Ulandasate and now it a naming activities successfully, with establishment of the WTMLO CCE, there is good opportunity to invite worldwide famous US leaders, speakers, lecturers to give valuable information, orducate Mangollan doctors and share experiences, to present modern diagnostic methods and advanced technology to our doctors.

As mission of WPBMB, our mission is to disseminate scientific information, improve healthcare through collaboration, communication, and education. Since started, WTUMB COC In Monopile organized 4 morkshops in Abdominal LS, Cardiclogy, Obstetrics and Connection of the Control of the Control





COE, Lagos, Nigeria (director, Dr. Kofo Soyebi)

National Siddle Cell Centre (NSCC) retained four of the best performing 10 Graduates capacity built through C.U.R.C, in Transcranial Doppler scanning, to conduct screening TCD on a daily basis, Monday to Friday, 8 am to 5 pm on children with Siddle Cell Disease (SCD), screening aimed at early detection of stroke-risk.

The Observation: Remarkable increase in number of children screened by my Team of three Radiologists over 9 months, scarning once a veels, shours per visit from 93 to 886 children in the same period. Children from every part of the country and neighboring countries started visiting this solitary TCD Centre for screening signifying a great need.

My intervention: 2016 and 2017 Grants were obtained from magnanimous IGNA Research and Education Foundation to increase the number of TCD centers from one to seven in Nigeria and train TCD congraphers for them.

The Project is ongoing. Heartfelt gratitude is expressed by ALL Beneficiaries.





COE, Lome, Togo (director, Dr. Lantam Sonhaye)

COE Workshop Lome was held on March 16-17th, 2017 with Pr Ph Arbeille, Pr Ph Devred (MASU VIFUMB contributers and observer).

Scientific program was composed of 13 main lectures of 25min each on various topics including (4 of them from the WRUMB representatives) overview of the common eclographic practice on abdominal, cardiac, vascular, musculoxidetal, fetal eclography, pediatric abdominal, practice in emergency, future application of ultrasound in the assessment of cardiovascular areing effect, and eclography, principle and current application. There were flor or advantaged a propriet and experience of advantaged propriet and current application. There were flor or demonstration and training sessions (2 of them by the VFRUMB representatives) on supported many experts on the participant (2 to 3 to) practiced on the same subject with the assistance of the expert. For these session as portable Eclography Sonocoanne Ottollic (Paris fr) vanued with a high frequency linear probe (17MBz), a curred array probe (3,5 -7 MHz), for the committee eclographics. Eclograph from CNES "Freeds space apency" provided, carried, and managed by Ph. Absellic. During end-demon or training session techniques are considered to the video projector so the audience could follow the eclography performed on the main screen. For the Tele-expectaging of the state of the control from any all the secting and function of the Eclograph van device value and the state of the control from any all the secting and function of the Eclograph and also the transducer orientation inside the Mostorade proceed (3, -7 MHz). For the demonstration and training the Eclograph and also the transducer orientation inside the Mostorade proceed (3, -7 MHz). For the demonstration and training the Eclograph and also the transducer orientation inside the Mostorade proceed (3, -7 MHz). For the demonstration and training the Eclograph and also the transducer orientation inside the Mostorade proceed (3, -7 MHz). For the demonstration and training the Eclograph and also the transducer to resolute the polarium (burney processes and the total control the polarium (burney) and training the Eclograph s

The CCC vookshop was organized by STUM (Togolese Society for Ultrasound in Medicine) under the responsibility of Pr Sonhaye, Pr Adjamos, and Pr N Dakens from the University Hospital Campus in Lone. The meeting took place at the Palace Hotel at the periphery of Lone. A 200 st I crown with air conditioned and video projector was available for the main lecture and training session, and another room similarly equipped served for the free (short) communication. The technicians in charge of the equipment in these room were particularly

The power point of each communication was collected for being printed on a CD to be sent to the attendees.

Around 100 medical doctors participated to the workshop over the 2 days. The participants originated from 6 different countries of Western Africa (ivory coast, Burkina Fasso, Niger, Benin, Guinea, Togo). Several foreign participant gave main lecture during the meeting. The



The Palace hotel where the COE workshop took place (Viell designed for meetings but ... several electricity interruption during the sessions)



P Arbeille, Pr N'Dakona, Pr Dovred, Pr Agbere (Dean). Pr Adjence



Tele echography demo: Expert on Left, distal patient on right. (sites linked by RJ 45 wire)

COE, Caaguazu, Paraguay (director, Dr. Ramon Bataglia)

We had tradicional course in 2015 and 2016 with the National university of Caaguszu the professors and authorities of Para-govern Society of Utrasonography and our WPUNB COE. We had in both seminant 90 and 12b participants of rural areas all over the country, During 2 days in a theoretical and hands on sessions of internal and obsterics and gynecology lemms.





COE, Chisinau, Moldova (director, Dr. Sergiu Pulu)

On 4-5 November 2016 the First Workshop of Chisinau Ultrasound Learning Center in cooperation with WFUMB was held in Chisinau, Re-

On 4.9 November 2016 the First Workshop of Chisinau Utrasound Learning Center in cooperation with VPEUMD vas held in Chisinau, Republic of Moldow. The event vis held in cripitation with the VPEUMD CO Triminoura, Romania, Moldown Society of Utrasound in Medicine and Biology (SUMB) and State University of Medicine and Pharmacy (SUMP) "Nicolae Testemitanu".

VPEUMD Sponders attended the program were Prof. Dr. Dieter Nichnerg (Sermany), Prof. Dr. Loss Ngoroe (Romania), Dr. Mirela Dan Na (Romania), and Dr. Romana Strl (Romania). The Program overed important aspects of utrasound, particularly focused on following topics: utrasound in elitine liber elitenoses and liber eletisoraphy, contrast enhanced utrasound in Food liber eletions, utrasound in pancross pathology, ultrasound for acute abdominal pain, abdominal free fluid and gas, kidney and adrenal glands utrasound. The vorishop was attended by 221 participants from all ower Moldows. Both the speaker and participants appreciated the vorishop with Prof. Dr. Los Abbill, the Rector of SUMP "Nicolae Testemitenu". During a varim and friendly atmosphere the Chismiau CSE's Condition and future plans have been discussed.

The SUMS vas established in November 2006 and has actually 429 members. The society joined EFSUMS in June 2008. On 27 February 2017 VPUMB has designated The Society of Utrasound in Medicine and biology of the Republic of Moldova as a VFUMB CCE condidate. The Cincenter Dis-Society SUMS in Asset 2018.

Director: Dr. Serghei Pulu, MD, PhD
Executive director: Prof. Andrel Testemitanu, MD, PhD; Secretary: Anatol Cretu, MD, Members; Prof. Vasile Turcanu, MD, PhD; Lillana Fujor-Bulhac, MD, PhD: Ecatorina Puskina, MD

More training courses in close collaboration with WFUMB are planned for the future.



(Left) VIFUMB lecturers and SUM's President, November 2016, Chisinau, Left to right: Prof. Ioan Sporea, Prof. Vesile Turcarru, Prof. Dieter Nürnberg, Dr. Roxana Sirli, Dr. Mirela



(Right) Participants of the WPUMB First Workshop of Chisinau COE's, November 2016, Chisinau.







COE, Khartoum, Sudan (director, Dr. Suzan Elhakim)

The Panarab 2000, an international event of Gastroentrology & Hepatology meeting, held in Mertoum has witnessed the first, workshop in clinical & interventional abdominal distracongraphy of the Centre of Gastroentrology is repeated by a high absolubly. Prof Locus Greiner, nonzera scenetary of EFSUMB and well known course indirector of EGGLM (German US society), was the chair and electure of this course. The event has opened new state eight for the education in abdominal and interdisciplinary ultracongraphy in Sudan which included missions for training of clinicians in ultracongraphy in in their removal and training in the education in the contract of the education in the contract of the education in the educati

This promitting start in US education with the International support was later revended by a spectacular visit of Vi/DUMB representatives in 2005. The WFUMB event was attended by the planeers of the WFUMB event was attended by the planeers of the WFUMB event was attended by the representative of ARUIL, it was a great success creating anaexeness and microhiston to learn. Alternative the created by the collaboration of radiologists, sustroenterologists is clinicians in general with prospects of practicing ultrasoning alpha. Microprove, before they terms the WFUMB internative was to create an interdesciplinative of practicing ultrasoning alpha. Microprove, there they terms the WFUMB internative was to create an interdesciplinative of ultrasonography. Alternatively meeting was successfully half a claimed by them. A mobile strasoning model in the WFUMB internative was to create a support of a referral to fail to international societies give schapers.

The workshop activity held as part of the Gastroentrology conferences continued to be supported by the VF UNB delegates is certification up to date in most of the ovents. Since its establishment in 1998 the dedicated US until of the National Centre of Gastroentrology is Repeatology in the Proposition of the Control Centre of Gastroentrology is Repeatology in the Proposition of the Control Centre of Gastroentrology is Repeatology in the Proposition of the Control Centre of Centrology in the Control Centre of Centrology in the Centre of Centr

The shortage of resources in a third world territory has credited ultrasonography superiority, nocessitating quality improvement, hopefully achieved through tinds to international US societies to combat with the advances in the subject. The workshop activity continued to be supported by YMDMS delegate, namely Prof. Dieter Nimberg frice president of YMDMS in 1904, 2016 is 2017. The course in 2014 was certificated by the ESUMS, the program of 2016 and 2017 was supported by the WHUMS. Prof. Nimberg given a YMDMS lecture about "Us education—the options in Sudies international Society of the Commission of the International Society of Society of the International Society of Society of Society of the International Society of Soc

In 2014 and 2015 four doctors from ibn Sine Hospital visited, the EFSUMB US Learning Center in Germeny, Neuropcin(Prof. Nilmberg) to improve their lavolvidege in abdominal and interventional US and to teach in the US education department in Nitration. The 10th of January 2015 was the texpecified dest of opening of the VKO ODE(Visit) of Genteron terminal conference of education) in Naturous and the National center of Genteron Center of education) in Naturous and the National center of Genteron terminal terminal conference of Centeron terminal Center of Centeron terminal Centeron Centeron terminal Cen

In March 2017 Ibn Sina Hospital Karthoun got the accreditation of the VFLMR and MASU to work as an accepted VFLMR COE. The COE is chaired by Dr. TraysiMA. Mustals, anoibigets and presioner of the Sudance lockety of Utrasound (SUS) and Dr. Sunan Blakim, the head of the US department of the Sina Blogaria as on defector. The Sudanose Society of US COSIA junder the leadership of Dr. Mustals will organize an interedisciplinary spectrum of utrasound education in the future. The society will be an active member of MASU in the next years. Dr. Sunan Blakim will organize the practical training in US and the workshop is the future.

The WFUMB CDE Khartoum will work as a CDE type 2: basic ultrasound interdisciplinary and advanced in gastroenterology Next activities in education are planned in January 2018: Interdsciplinary US Workshop basic and advanced and an EUS workshop.

The contact persons of the V/FUMB COE in Khartourn are:
Dr. Drayah M. Mustafa, COE director
The COE is voicking, COE Co-director
The COE is voicking with the special sponsorship of Prof. Dieter Nürnberg, WFUMB





WFUMB Affiliated Organizations

AFSUMB (ASAM REDIRATOR OF SOCIETIES OF SOCIETIES OF MACHINE AND RECOGN

(www.afsumb.org)

APSUMB represents 19,272 physicians, scientists, engineers and sonographers in Asia. APSUMB consists of 16 affiliated societies, namely, 85U: Bangladesh Society of Ultrasound selection of Ultrasound in Medicine, CTUBA: Chininee Taiglet Society of Ultrasound in Medicine, BUBA: Indian Reduction of Ultrasound in Medicine, BUBA: Knorean Society of Ultrasound in Medicine, BUBA: Knorean Society of Ultrasound in Medicine, MUSA: Morean Society of Ultrasound in Medicine, MUSA: Medicine, BUBA: Morean Society of Ultrasound in Medicine, MUSA: Medicine MUSA: Morean Society of Ultrasound in Medicine, MUSA: Medicine MUSA: Morean Society of Ultrasound in Medicine, MUSA: Medicine MUSA: Musaound Society of Pakistan, USA: Ultrasound Society of Neal.

The AFSUNB's Asian Symposium on Advanced Ultrasound Technology (ASAUT) 2015 vias successfully held in Taipet, chaired by the President of Chinose Taipet Society of Ultrasound in Medicine (CTSUM), Professor San Kan Lee, and Yi Heng Chou. With the strong support from the AC members, and the CTSUN Board members, the ASAUT attracted more than 400 attenders. The 13th AFSUNB' Wistop vias held at Colders Jubilee Building, Thai Medical Society, Nev-Pechaburi Road, Bangkok on 7-9 November 2016. The workshop was hosted by Medical Ultrasound Society of Thailland (MUST) and organized by Dr. Willajorn Bhothisuvan. AFSUNB 2016 vias held in on 27-29 May 1016 in Seoul Korea.



AFSUMB 2016, Nyoto Japan, Congress Banquet





AFSUMS 2018, Secul Korea

AIUM aium

(www.aium.org)

The AUM has had a very buryyear culminating with a successful annual convention held at the end of March in Orlando Florida. The meeting attracted physicians, scientific, nonergiphen and students from around the country and the world. A curcestful series, nonergiphen are preconvention courses was highlighted by "Snowlam" an event focusing on ultrasound in medical education. More than 200 medical students from around the United States competed on challenging cases and their scanning (Figure 1). The AUM has focused heavily and dent education over the past several years and is now a feeding voice for ultrasound instruduction into medical schools in partnership with the Soriety for Ultrasound in Medical Education (SUMM).

As part of AUM's ongoing mission to reach out to a broad base of ultrasound users, the point of care community of practice held a hands-on seminar for internal medicine physicians at AUM Figure 2). The internal medicine community in the United States is experience tremendous growth in ultrasound interest trians and the AUM has partnered with the American College of Physicians for a thirt to help organize and run their new ultrasound pre-conference course which was held this year in San Diego, overlapping with the AUM annual conven-

The AUM continues to pursue partnerships with other societies to improve communication and ultrasound practice. Highlights on safety and quality of practice continue to be a focus at special sessions and webinars.



Figure 1. "Sonoslam" at AIUM 2017.



Figure 2. Hands-on session for interr medicine physicians at AIUM 2017

WFUMB Affiliated Organizations

ASUM Society for Ultrasound in

(www.asum.com.au)

ASUM has continued its strong performance in providing educational opportunities for its multidisciplinary members.

In October 2016, over 650 delegates attended the AUM's 46th Annual Scientific Meeting in Brisbane with five renowned international speakers, including Professor Seung Kim as the WFUMB speaker. In addition to this meeting another 30 events have been held throughout Australia and New Zealand, covering OBG, cardiology, vascular, rheumatology, MSK and trainee assessment and supervision.





The 2017 Annual Scientific Meeting will be held in Melbourne Victoria from 6-8th October with international keynote speakers including Professor Christoph Dietrich as the WFUMB speaker.

The ASUM's formal education has also continued to grow, with the addition of the Graduate Diploma in Medical Ultrasound (GDMU) for sonographers in general, cardiac, vascular and OBG streams. These courses join a long list of ultrasound qualifications and oredentialing for both medical and allied health workers.

In February 2017 ASUM became one of the first ultrasound societies in the world to work with a national infection control group to formulate guidelines for infection prevention in ultrasound practice. The Australian College of Infection Prevention & Control (ACIPC) will continue to work with ASUM to ensure patient safety, with workshops planned around Australia and New Zealand over the coming year. Associate Professor Sue Westerway, WFUMB councillor, and the ASUM editorial assistant Dr Jocelyne Basseal are now working on the results of the WFUMB infection control survey and producing stream-lined recommendations for ultrasound users worldwide. Visit the ASUM website (www.asum.com.au/standards-of-practice) to view the updated article.

Preparations for WFUM8 2019 in Melbourne 5-9th September are well under way. The Melbourne convention centre is an ideal location for a meeting being in the heart of the city and walking distance to good hotels and restaurants. There will be topics to cover all aspects of ultrasound practice including abdominal, breast, cardiac, head and neck, O&G, vascular, emergency and critical care, education, MSK and many more.



The past president is Associate





WFUMB 2019, Melbourne

Professor George Condous currently presides as the President of ASUM and will continue in this position until 2018.

WFUMB Affiliated Organizations_continued

EFSUMB



(www.efsumb.org)

EFSUMB promotes the exchange of scientific knowledge and development in the medical and biological professions as applied to ultrasound and is the biggest ultrasound federation in the WFUMB family. Recent activities include the EFSUMB guidelines on interventional ultrasound, gastrointestinal ultrasound and the updated guidelines on elastography of the liver, which can be freely downloaded from the EFSUMB website. We also refer to the EFSUMB position papers on the pediatric use of CEUS and medical student education. To promote student education in ultrasound is a major task for EFSUMB and recently a student committee was established, also to increase the student program at our Euroson congresses. Furthermore, EFSUMB is hosting approximately 10 Euroson Schools and 15 endorsed courses yearapproximately 10 currous actions and hands-on training for our members. A few endorsed courses are also held outside Europe, endorsed course in Mansoura, Egypt (February 2017). the last in Mansoura, Egypt in February 2017 (Figure 1).





Figure 2. The foto shows a combined working meeting in Ljubijana with EFSUMB ExB and the Turkish Local Congress Committee.

Voting at the Consensus Meeting on the CBJS non-liver Guidelines Update 2016 London

Cases of the month (one of EFSUMB's most visited sites) has been translated into 14 different languages. Current EFSUMB activities are also presented at our website, hosting eBooks and the EFSUMB Course Book on Ultrasound (ECB), for details see. Please consider to visit the EFSUMB-website to sign up for the EFSUMB newsletter for updated information. One of the biggest highlights in 2017 will be the Euroson Congress in Ljubljana, Slovenia, hosted by the Turkish Ultrasound Society. Figure 2 shows a working meeting in Ljubljana with a combined meeting with EFSUMB Ex8 and the Turkish local Congress Committee. Welcome to Ljubljana in September! Registration





WFUMB Affiliated Organizations_continued

FLAUS MELAUS

(www.flaus-us.org)

An In the last week of February 2017, Dr. Fernando Chavar ria Estrada, President of FLAUS (2015-2017), met in Washington on behalf of FLAUS with the Committee Director of the Alliance for Physician Certification and Advancement (APCA) in order to plan the activities to be developed in 2017. An important announcement is the achievement of a new system created to take the Certification Exam in the area of Abdomen Ultrasound (AB-LA) as well as the Certification Exam in the area of Abdomen Ultrasound (AB-LA) as well as world-class institution, highly specialized in these activities, which has examing centers throughout Latin America. The exams are computerized and delivered in Spanish. Pearson VUE is based in at least 15 Latin America countries, so certification exams can be carried out simultaneously during a full month, from July 13, 2017 to August 14, Including one in the city of Sao Paulo, Brazil, where FLAUS will have their meeting. With this grand opening, virtually all applicants for certification will have the opportunity to apply on any day, during this month, in their own country, prior registration.



President and Secretary of FLAUS



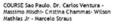
In 2016 FLAUS developed 2 courses in order to spread applications in CEUS, sponsored by BRACCO. The first one was held in Belo Horizonte, Minas Gerais, October 28, hosted by SBAD (Gastrenterology Meeting - there were about 80-90 people and 50% were gastroenterologist. Stephanie Wilson was fabulous and has enchanted the public! Another international speaker, Dean Huang, was great as well! (Conducted the Pre-congress image Course during SBAD - Brazilian Week of the Digestive System, in Belo Horizonte, in partnership with SRMG - Society of Radiology of Minas Gerais and biscus and educational support of Bracco. Participation of Dr. Stepahnie Wilson from Canada and Dr. Dean Huang from England).

COURSE BRACCO SBAD 2016

In December 13 (8h - 12h), FLAUS conducts the Microbubble Contrast Ultrasound Symposium in partnership with InRad, WFUMB and educational support from Bracco, with the participation of the international speaker, Dr. Massimo Mischi, from Eidhoven University, Holland, which was held in São Paulo (University of São Paulo), about urological, pediatrics, cardiac, oncological and breast topics, including perspectives for the future.

During these first months of the year 2017, FLAUS cooperated with the Continuing Ultrasound Education Congresses being held in Bolivia, the Dominican Republic, Ecuador and Guatemala. Currently two successful events have been held, the joint event 47th 5ão Paulo Radiological Congress / Il French-Brazilian-Latin American Radiology Congress (JPR2017) / FLAUS and the II Congress of Medical Ultrasound SPUMB 2017. Next we have the IX Dominican Congress of Sonography dedicated to the FLAUS will be held from May 19 to 21, 2017.







SPUMB and FLAUS speakers

WFUMB Affiliated Organizations_continued



(www.masu-ultrasound.com)

COE activities. The COE in Nairobi at Aga Khan University Hospital has completed the Visiq project and the, COE director is Sudhir

MASU Congress. The 16th MASU congress took place in Alexandria, Egypt from 5th - 7th October 2016. The congress was a huge success with 838 attendees, 165 faculty, 63 exhibitors and 44 Oral presentations. Subspecialties covered were: Abdominal, Women's Imaging, Cardio-thoracic, Yascular, Head & Neck, Pediatrics, Intervention, Geritourinary and Musculoskeletal. Feedback from participants was excellent. The next MASU meeting will be in Italy, 2018.

Philips Visiq project at the COE in Nairobi.

The COE in Nairobi has completed the "Visiq" project in collaboration with WFUMB. This is a novel project that will train midwives to perform a simple ultrasound examination on expectant mothers with a view to screen high risk pregnancies in rural Kenya. The manuscript is ready and findings will soon be published.

Report on CURE projects (Nigeria).

Centre for Ultrasound Research and Education (C.U.R.E) is based in Nigeria and is the 56th Affiliate Centre of the Jefferson Ultrasound Research and Education institute, Philadelphia, PA, USA. The COE in Nigeria has just embarked on a new project involving Sonographer training in obsector imaging. COE director is Kofo Sayabi.

Ethiopia COE Initiative

The Ethiopian CCE is not yet under the umbrella of MASU. However, MASU has helped to synthesize a working relationship between the Ethiopian Ultrasound Society (in the process of formation) and WPUMB. We are hopeful that the society will be operational















History of Ultrasound and WFUMB (1939-1949)

| Year | Facts | Person | Country |
|-----------|--|---|---------|
| 1939-1945 | World War [] | | |
| 1941 | Pulse-echo US instrument with a second non-generating transducer to detect returning echoes | Donald Sproule and others working for Henry Hughes and Son | England |
| 1941 | Reflectoscope with a single transducer as both generator and receiver | Floyd Firestone | USA |
| 1943 | There emerged non-destructive ultrasonic flaw detection techniques from marine sonar | | |
| 1946 | Use of high-intensity US as a noninvasive surgical technique to treat brain-related disorders | William Fry | USA |
| 1947 | Hyperphonograms of cerebral ventricles produced | Karl Dussik, Friedrich Dussick | Austria |
| 1947 | Experiments on detection of gallstones and foreign bodies using A-mode presentation of reflected echoes | George Ludwig | USA |
| 1949 | Measured the thickness of excised bowel tissue using a Navy radar trainer operating at 15 MHz | John Wild | USA |
| 1949 | First International Congress on Ultrasound in Medicine in Erlangen and Dussik presented his hyperphonograms | Karl Dussick | USA |
| 1949 | Japan's first A-mode US equipment at the research labora- tories of Nihon Musen (Japan Radio) Company (now Aloka) | Relouro Uchida | Japan |
| 1949 | 'Ultrasonics' published | Benson Carlin | USA |
| 1949 | 'Der Ultraschall in der Medizin' in Erlangen, Germany. | | Germany |



Ultrasound flaw detector (1941)



Dussick's initial ultrasonic generator (1942)



William Fry who tried to use high intensity ultrasound to treat brain-related disorders







George Ludwig and his A-mode apparatus in his gall stone expetimentDussick's initial ultrasonic generator (1947)



Title page of congress proceedings_Ultrashall in der Medizin (1949)



Title page of Ultrasonics (1949)

History (1761~1939) was published in ECHOES#16, November, 2016

In Memoriam

Professor Peter Wells (1936-2017)



Professor Peter Wells was one of the highly regarded pioneers in the world of medical ultrasound and did outstanding contribution to World Federation for Ultrasound in Medicine and Biology (WFUMB).

After Peter got PhD from the University of Bristol, he served as a medical physicist at United Bristol Hospitals (1960-1971) and Welsh National School of Medicine (1972-1974). Peter was a chief physicist at United Bristol Hospitals until 2000. After retirement from Bristol (2011), Peter became a Distinguished Research Professor at Cardiff University where he continued his



pioneering work of ultrasound. Peter was awarded the Royal Medal from the Royal Society (2013) and the Sir Frank Whittle Medal by the Royal Academy of Engineering (2014). Peter served as the Editor in Chief of 'Ultrasound in Medicine and Biology', official journal of WFUMB, for 15 years

(1992-2006). He also served as the Vice President (1982-1991) and as the chair or member of various committees including Chair of Publication Committee (1982-1985), Member of Committee on Standards and Information Technology (1997-2000), Chair of History and Archives Committee (2000-2006), and Member of Nominating Committee (2003-2006). In 2003, as the Chair of History and Archives Committee of WFUMB, he produced 'An Archive of History and Archives Committee of Utrasound Development'. Peter will be missed and always remembered for the great contributions he made to enhance the use of ultrasound. Haisen Gharbi and David Evans represented WFUMB at Peter's Memorial Service in Clifton College Chapel on 30 June, 2013.







Professor David Cosgrove (1938-2017)

Dr. David Cosgrove, a leading researcher and teacher from London, died on Tuesday, 16 May, at the age of 78. David was a pioneer in the clinical application of ultrasound and a passionate advocate of ultra-sound technologies including contrast enhanced ultrasound and elastography. David was an esteemed educator and prominent leader, and devoted himself to research for innovation of Ultrasound. David contributed a lot to WFUMB and WFUMB-affiliated organization by innumerable innovative lectures. He was a great mentor, advisor, collaborator, colleague and friend of our group. He will be dearly missed, by us and many

people around the world.





So what will matter?
How will the value of our days be measured?
What will matter is not our competence, but our character.
What will matter is not how many people we know,
but the depth of the lasting loss felt when we are gone.
What will matter use not our memories,
but the memories that live in those who loved us.
Living a life that matters decent happen by accident.
If s not a matter of circumstance, but of choice.

David chose to live a life that mattered.

From his memorial service brochure

WFUMB Congresses

WFUMB2017 Taipei, October 13-17



The WFUMB 2017 TAIPEI (the 16th Congress of the World Federation for Ultrasound in Medicine & Biology) will be held at the Taipei International Convention Center, Taipei, Taiwan, from October 13 to 17, 2017. The venue is located within 5-minute walking distance to the landmark of Taipei, Taipei 101, and a range of excellent hotels, and

The WFUMB 2017 TAIPEI will provide an international platform for physicians, researchers and clinical professionals to exchange ideas, share experiences and interact with world renowned experts. The program will highlight the latest cutting-edge knowledge via workshop/hands-on sessions in the Pre-Congress on October 13, and 22 parallel Tracks in the Main Congress, October 14-17. Most of the world renowned ultrasound experts are invited, please visit the website (www.wfumb2017.org) for the tentative program as well as other important information.

Free papers are also one of the most important parts of the WFUMB 2017 TAIPEI and great channel for ongoing collaborative/ individual efforts to present and exchange experiences. There will be competitions for the Young Investigator Award (YIA) for delegates under 40 years old, and Best Oral Presentation Award and Best Poster Award for all delegates to encourage continuing scientific researches.

Taipei, the lovely and friendly capital of Taiwan, is not merely the political and economic center of Taiwan but best -known as an international metropolis abundant with a vibrant contrast of the old and the modern cultures. With such a diverse range of attractions, convenient mass transportation and a grand selection of dining and accommodation options, Taipei is a perfectly ideal destination for you. In addition to the scientific programs, four different half -day city tour lines, fair priced and quality guaranteed are arranged to our value participants to discover the essence of Taipei!

> Cheng-Wen Chiang, MD., FAPSC, FACC Co-President, WFUMB 2017 TAIPEI











National Chiang Kai-Shek Memorial Hall



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WFUMB Vision Statement:

Through communication, collaboration and education, bring sustainable ultrasound programs to underserved areas in the world.

ISSUE 18

DECEMBER 2017 EDITION



Presidents speech at opening of WFUMB Taipei meeting

Christian Nolsøe

Good Morning ladies and gentlemen, Mr Chen Vice President of Taiwen, Congress Presidents Prof Chiang, Prof Nisenbaum and Prof Chou, dear friends.

I have a dream that one day ultrasound will be readily available to healthcare providers everywhere on our planet. Therefore, it is an exquisite pleasure to welcome so many ultrasound professionals of different

expertise from all over the globe to our world-congress here in the bustling city of Azaleas, also known as Taipei. I am tremendously proud to be standing here today and this worldwide community of highly

addressing such a prestigious group as you. I am proud to be one of you, an attendee of WFUMB 2017, proud to be a member of >> CONT. PAGE TWO

I have a dream that one day ultrasound will be readily available to healthcare providers everywhere on our planet. "

Presidents speech at opening of WFUMB Taipei 2017 meeting

[continued from Page 1]

.... dedicated professional experts that has found it in themselves to travel across the world and gather here in Taipei and for 5 days dedicate our full focus on nothing else but one thing: MEDICAL UL TRASOUND.

Congress co-presidents Prof Chiang & Prof Nisenbaum and the entire team of organizers have done a fabulous job and we, the attendees, highly appreciate your tireless efforts and hard work. We thank you deeply and you should all be very proud of yourselves. The congress secretariate led by Miss Novia Lin have provided an extraordinary smooth, efficient and friendly service. You have a huge share in the success of this congress and we thank you all.

In WFUMB we have a motto that goes: "WFUMB - Bringing ultrasound to the world"

Here in the city of Azeleas we come together nearly 2,400 attendees from 46 countries to improve and perfect our knowledge in the science of medical ultrasound. I believe we can twist our motto slightly for this occasion and say: "WFUMB 2017 - bringing the whole world to ultrasound".

Ultrasound is a truly amazing and unsurpassed tool. We can change the world with ultrasound. We can improve global healthcare. We can remove developing world inequity. We can better maternal healthcare and help take away oppression of women. We can do all this by bringing ultrasound to the world.

Yes, we can I Let us do it,

Thank you for attending WFUMB 2017, thank you for your attention



Outgoing President's message Harvey L. Nisenbaum, M.D., FACR, FAIUM, FSRU

It has been a great honor and privilege to have been the WFUMB President from 2015-2017. Working with a wonderful and very competent Executive Bureau and Administrative Council, we have made some significant achievements during this time following our vision and mission of bringing sustainable ultrasound programs to underserved areas of the world to help improve global healthcair through collaboration, communication, and otheroprocess.

Through collaboration and communication, we want the name WFUMB with its 6 member Federations to be identified with the global use of ultrasound. Since 2015 we have added 3 Centers of Education (changed the name Center of Excellence to Center of Education)- Paraguay, Moldova, and Sudan. Over the last few years WFUMB leaders have been meeting with vendors and other organizations at the annual RSNA in Chicago to discuss opportunities for collaboration. This past November we met with 8 vendors and 3 organizations. The vendors are very interested in supporting our COEs and we are in the process to make that happen. We are discussing opportunities to collaborate in 2018 with the World Federation of Pediatric Imaging (WFPI) and Imaging the World (ITW). We are supporting a WFUMB Lecturer at the annual meeting of each of our 6 Federations and also offer to support at least one WFUMB Lecturer at each of the COE annual meetings. WFUMB with its 6 member Federations is more than an organization. It is a family of individuals who volunteer their time to help bring ultrasound to the almost 2/3 of the world population who live in remote areas of underserved areas where the only imaging that can be supported is ultrasound, not CT or MRI. It will take a long time. WFUMB will be there.

One thing I know very well is that WFUMB going forward will become an even better organization under the leadership of President Christian Nolsoe and President-Elect Seung Kim. Let's Improve global healthcare through ultrasound.

THANK YOU LETTER SENT TO SPEAKERS AFTER WFUMB TAIPEI

Greetings from WFUMB 2017 TAIPE!

With your support, participation, and contribution, WFUMB 2017 TAIPEI is concluded as another successful WFUMB Congress! We are pleased that there are more than 900 abstracts submitted and over 2,500 participants from 46 countries in WFLIMB 2017 TAIPEI.

Specifically, your active participation is instrumental and critical in enriching the medical content of WFUMB by extending the fronter of utrascured. On behalf of the WFUMB 2017 TAIPEL Committees, we would like to express our most sincere appreciation for your contribution.

In addition to the medical research presented in the Congress, we also hope new friendship and enlightening vision is formed, which would promise more collaboration in addressing the pertinent and cutting edge issues in the coming future.

As a memoir of your participation, the Congress photos can be accessed through our Congress website: www.wfumb2017.org/congess_photo.php



Incoming WFUMB President's address Christian Nolsøe

Dear members of WFUMB and all other friends of ultrasound anywhere on the globe. In my capacity, as newly elected WFUMB President, it is an utmost pleasure to welcome you all to take part in the next two years ultrasound journey to bring us nearer to our ultimate goal: Ultrasound for All.

WFUMB's new officers are ready to work hard towards achieving this goal. The key persons, however, to be successful, are not us but YOU, the individual ultrasound person out there utilizing our fantastic tool as a health care provider of any expertise and on any level. You are the most important persons in this equation and I write you in the hope to inspire all of us to tune in on the same wavelength so we can work in unison and hopefully all draw both at the same time and in the same direction to bring ultrasound to the

The forthcoming term 2017-2019 also sees a change in WFUMB administration.

To diminish the issues with global time differences and enhance communication and effectivity we have decided to move our physical administrative office to London and it is my utmost pleasure to announce that effective November 1st 2017, Ms. Lynne Rudd is our

new WFUMB Administrative Manager. Lynne will work closely with our new web manager Suzanne Cain of Kosmos Design and all of you who are familiar with FPSUMB and their website and the online educational material freely accessible there will appreciate the excellence of service we anticipate from our new administrative team and for our future WFUMB website. This also means a goodbye to AIUM administration who has taken care of our business throughout the last decade. We thank the staff at AIUM for all the good years and look forward to continuing and develop our good relationship in the future world of global ultrasound.

WFUMB administration and ExB are eager to continue our quest in fulfilling the purpose we set out to be our mission: WFUMB - bringing ultrasound to the world!



We will do this by continuing the hard work and dedicated efforts exerted by the previous Executive Rureau and Administrative Council under the superb leadership of our Past President Harvey Nisenbaum. In this connection, I want to direct a heartfelt thank you to all members of committees and council. You deserve our deepest credit and acknowledgement for your voluntary work and true dedication to our mission. WFUMB new leadership will follow the motto you and President Nisenbaum implemented: Bring sustainable ultrasound programs to underserved areas in the world through communication, collaboration





The Australasian Society for Ultrasound in Medicine (ASUM) continues to deliver to the membership for all aspects of ultrasound education.

The ASUM team and volunteers are busy working on examinations, conferences and CPD events to ensure exceptional educational offerings for physicians, sonographers and allied health professionals.

We would also like to acknowledge and thank all our sponsors who continue to support ASUM. events in line with our mission to advance the clinical practice of diagnostic medical ultrasound for the highest standards of patient care.

In July the New Zealand branch of ASUM delivered a fantastic winter meeting in Christchurch, a beautiful South Island city, which has been the scene of a number of devastating earthquakes over the past 5 years. The ultrasound community rallied with a record number of attendees due to the high quality program, which included a dedicated two-day cardiac stream.

The ASUM 2017 scientific conference was held at the beginning of October in Melbourne, which will be the venue of WEUMB 2019. The line-up of quality speakers willing to share their knowledge and expertise enticed a record number to attend and learn. The drawcard were our international faculty, which included Prof Christophe Dietrich as the WFUMB speaker, Prof. Peter Burns, AlProf Nick Raine-Fenning, Dr Jader Cruz and Dr Jacob Jaremko. The medical education stream went to a whole new level challenging the traditional 'teaching' methods. Two days of cardiac ultrasound again. proved popular, as well as six alternate streams

to choose from, including O&G, vascular, paediatrics, general, MSK and PoCUS. The Gala dinner highlighted the social events. which kicked off with the Toshiba drummers and sake ceremony, and continued to be a celebrated evening.

The Annual General Meeting was held in accordance with the constitution. This finalised the changes to ASUM Council for 2017-18 as follows; A/Prof George Condous (President), A/Prof Fred Joshua (President Elect), Suean Pascoe (Socretary), Dr Philip Hung (Treasurer). Sue Davies. Rex de Ryke. Jo. McCarn, Dr Karen Mizia, Jody Eassina and Scott Graham.

ASUM is looking forward to hosting the 17th WFUMB Conference in Melbourne, 5-9th September 2019

Lyndal Macpherson CEO



New Presidents Vision

WFUMB COEs - Ultrasound for All - US4All

During my term as WFUMB President I plan to continue our previous efforts of strengthening the focus on education and publications. We hope to bring our education activities to a position that will play a pivotal role in the countries and regions we enter. To this end we strongly rely on our existing 13 Genters of Education (COE), spread out over the world, and we plan to expand this number with new COEs over the coming years.

Our intention is to adjust the infrastructure of WFUMB leadership to enhance the function and guidance of these important efforts. Under the umbrella of Education Committee and with Odd Helge Gija as chairman, we have created 3 new matters.

- WFUM8 COE Task Force (Dieter Nürnberg, task force Director)
- 2) WFUMB E-learning Task Force (Adrian Goudie, task force Director)
- WFUMB Student Education Task Force (Harvey Nisenbaum, task force Director)

The WFUMB COE Task Force replaces the former COE Advisory Board but the COEs remain our most important measure of bringing ultrasound to the world with the local COE Directors being our highly treasured co-workers to achieve this goal.

In addition, the COE Task Force will include a regional Director from each federation, except for MASU where there will be two directors, one for English-speaking Africa and one for Francophone Africa.

Two federations, AIUM and ASUM, do not presently have any COE and it may not seem natural to set one up within their geographical area. If this is the case one idea could be to establish COEs in countries or areas culturally or geographically closely related to these federations. In the case of ASUM we are aware of such connections and activities involving ultrasound education e. g. at the Fiji Islands.

Sue Westerway, Past President, has accepted the position as the ASUM COE Task Force Director and will focus on this location.

The role of the WFUMB COE regional Directors will be of utmost importance. As well as upporting the existing COEs and their Directors in the endeavor to promote ultrasound in their country, they will also stimulate the creation of new COEs to reach out into new countries. The regional Director is responsible for continuous contact with each COE in the geographical area that his or her Federation covers. One specific task will be to build a personal relationship with each local COE director, including regular email correspondence about the COE activities.

The conduct of courses, report of activities and creation of new CDEs is the responsibility of the Regional Director and supported by our WFUMB secretariat. In addition to the responsibility of overseeing CDE activity, the regional CDE Director will also be an ordinary member of Education Committee and will participate in EC meetings and communicate and report to the EC Chairman.

The regional COE Director is there to support you so if you have any ideas or ambition to establish a new COE in an underserved area somewhere on our planet, please contact them. There are a few prerequisites for establishing a COE, one of them being the existence of a multidisciplinary national ultrasound society in the country you wish to baild a COE.

Please see exact information at

http://www.wfumb.org/centers-of-education/

We aim at having the regional COE directors play a strong role in this important leadership infrastructure and are happy to have the acceptance for each federation of a dedicated leader with genuine local support and in-depth knowledge as follows: Director of the AFSUMB COE Task Force:

Byung Choi, Korea.

Director of the FLAUS COE Task Force: Leandro Fernandez, Venezuela.

Director of the EFSUMB COE Task Force:

Ioan Sporea, Romania.

Director of the MASU Francophone COE Task

Force: Hassen Gharbi, Tunisia.

Director of the English-speaking MASU COE

Task Force: Sudhir Vinayak, Kenya.

Director of ASUM COE Task Force: Sue Westerway

My 2017-2019 goal for the WFUMB COE program is to establish one new WFUMB COE in each of our 6 member Federations.

If possible, these new COEs should be economical neutral by working together with the WFUMB Colboration Committee to set up sponsorship through collaboration with charity foundations, NGOs or industrial partners. This is not a prerequisite, merely an intention.

Aside from this new infrastructure of Education Committee, the overall WFUMB structure will continue with the same number of committees and I am happy to have the acceptance of a highly qualified VxFUMB officer for each committee as it appears from the WFUMB 2017-2019 Chairman Diagram on the WFUMB website.





For the first time a post graduate ultrasound course was held in Gondar Ethiopia from November 13th-17th

ULTRASOUND ~ the Gondar experience

Caroline Ewertsen, MD, Phd



The course was established in collaboration between WFUMB, RAD-AID, the Norwegian National Centre for Ultrasound in Gastroenterology (NCUG)(Bergen) and the Ethiopian Society for Internal Medicine. Previously, 3 courses in ultrasound have been arranged in Ethiopia in collaboration with WFUMB and others.

ties (OB/GYN, gastroenterology, radiology etc.) coming from the University Hospital in Gondar and Black Lion Hospital, Addis Ababa attended the course. Few had previous experience with transabdominal and gynecological ultrasound. The faculty consisted of Dr. Christian Noisge (WFUMB), Odd Helge Gilja (NCUG), Dr. Zenahebezu Abay (Gondar), Dr. Amir Sultan (Ethiopian Society for Internal Medicine), Dr. Torben Larsen (gynecology), sonographer Joan Swan (RAD-AID), and Dr. Caroline Ewertsen (radiology). The first four days the participants had different theoretical lectures in the morning and early afternoon followed by 2 hours of hands on scanning in 5 groups each day. The local faculty arranged with patients, who were then scanned by the attendants supervised by a faculty member. Two conventional ultrasound systems were available on site and RAD-AID and WFUMB had brought 4 hand held devices with them, all kindly provided by Philips. This showed up to be very convenient during the power breakdowns, where no electricity was available in the examination rooms.

Forty-five medical doctors from several special-

Also WFUMB president Noisee was very creative holding some of his lectures without any slides, others with his laptop in his hand due to the power breakdown.

Sonographer Joan Swan from RAD-AID assisted with hands-on and stayed two weeks after the course providing hands-on training. All attendants were eager to learn more and participated in the discussion after the lectures as well as during the hands-on training.

NCUG has participated in educating gastroenterclogists in endoscopy and ultrasound at the flack. Lion Hospital, Addis Ababa for the lest 6 years and two of the doctors from this hospital already had very good skills. Ethiopia is a beautiful country with beautiful and kind people and welleducated medical doctors. Taking unstable power supply into account ultrasound has a strong potential as imaging modality, especially with handheld devices that does need continuous power supply. After this first ultrasound course a solid fundament for future education in ultrasound is laid, and hopefully further courses will follow. I kindy wish to thank all the participants as well as the local and international course organiters.





FEDERATION REPORTS:

During the last 6 months MASU Board has been working on finalizing the MASU biennial meeting scheduled to be held in Naples, Italy in conjunction with the Italian Society of US, SILIMB.



Several Italians Experts are involved in the MASU activities since the beginning in 1986. We are still in discussion with the SIUMB

Some of our Society members organized their annual Congresses such as The Tunisian Society of Ultrasound , STED , held it's Con-

gress on 28th of Octobe 2017, attached is the poster, and KESUMB, Kenyan society of US held a meeting in June 2017

We are working to promote the WFUMB flag , through the Nairobi COE

midwives project and Lagos COE GE project. We are also part of Afrosafe project through the African Society of radiology, and European Society of Radiology, auspices.

Hassen A. Gharbi MASU Administrative Council WFUMB Board 2017-2019





FEDERATION REPORTS: EFSUMB Update

EFSUMB is working hard to fulfil our mission to build a European Ultrasound Community. Education is the most significant aspect of all EFSUMB activities and members and leaders of EFSUMB are engaged in providing new material and improve teaching and training all over Europe, and even to places far outside Europe.

The Euroson Congress

The Euroson congress is the absolute EFSUMB highlight of the year with an up-todate program for science and education and it constitutes a vibrant, interdisciplinary meeting place for all stakeholiders of ultrasound. The EUROSON congress in September 2017 look place in Ljublanu, Sloveria. The 29th Euroson Congress had an exching program with approx. 600 participants. This congress was arranged by EFSUMB and the Turkish Ultrasound Society (TUDS) under the leadership of Adnan Kabasloğlu. The 30th Euroson Congress is taking place next year 6-9. September in Poznan, Potand. See rinage 1.

Euroson Schools and Endorsed Courses

EFSUMB has now organised over 130 Euroson Schools across Europe, thus giving a large contribution to the dissemination of ultrasound education and hands-on training. Last year EFSUMB approved 12 Euroson Schools and 15 endorsed courses covering aspects (ike MSK, viscular, rheumalology, CEUS applications, paediatrics, chest and hepatology. The first Euroson School ever in Russia was arranged in Moscow in May 2017 on the subject of CEUS and twas very well attended. The local organizer Prof. Mitkov did a great job covering very well all aspects of this post groudset course. See image 2.



knage2: The international faculty of the successful Euroson School in Russia is gathered outside Kremlin, Moscow.



image 1: The new EFSUMD President Paul Sidio (left) has just received the President medal from Past-President Odd Hetge Giffa glight) at the laund-over ceremony at the Euroson Congress in Stovenia.

EFSUMB Webinars

The series of wetners is a fexible and popular way for run seminars on various ultrasound themes. So far, EFSUMB has organised 6 webners, the first in 2015, and the last one in September 2017 was on elexography of the liver. Please, stay tuned on our web-site http://www.efsumb.org to be informed about upcoming wobsines.

European Journal of Ultrasound / Ultrasound International Open

EFSUMB is proud of our journal, which is sound and vivid with lots of highly clotd papers. EJU is the most twickly read interdisciplinary ultrasound journal in Europa. Its current Impact Factor (3.9) is higher than any other ultrasound journal worldwide.

Ultrasound International Open is a fairly new open access journal and receives many articles rejected by the EJU and is now registered in PubMed Central with over 150 articles that can be downloaded for free in PDF format.

Odd Helge Gilia

EFSUMB Past-President 2015-2017

EFSUMB guidelines and clinical recommendations

The world's first quidelines on gastrointestinal ultrasound (GIUS) was recently released by FESUMB An FESUMB Task Force Group (TFG) with experts from all over Europe is constantly working to make more GIUS guidelines and the next topic will be ultrasound in IBD, which has been submitted and soon will be published in EJU. Other GIUS guidelines planned are: Inflammatory conditions. transrectal/perineal US, miscellaneous, and functional US. Furthermore, previous EFSUMB quidelines are continuously being updated. The EFSUMB guidelines on liver clastography has just been published. The update on non-liver CEUS guidelines is finalized and soon to be published. The work on the secand part of elastography guidelines (non-liver) has started and a consensus conference is planned for February 2018 in Frankfurt.

EFSUMB Student Committee

EFSUMB has now included students more closely under the EFSUMB umbrela by establishing a student committee. The new EFSUMB Student Committee (ESC) was elected at last Euroson Congress and is working to stimulate integration of utrasound teaching and training in medical education of students and to plan student advittees and teaching sessions at the EUROSON congressors.

Ultrasound Learning Centres

EFSUMB Ultrasound Learning Centres (ULC) is established in 7 renowned ultrasound locations around Europe. Timisoane, Nouruppin, Cluji-Napoca, Bergen, Madrid, Pavia and Zurich At these accellent teaching state, participants can spend a poriod of time to loam and improve their competence in many applications of ultrasound.





WFUMB 2017 TAIPEI





The 16th WFUMB Congress (WFUMB 2017 TAIPEI) had been successfully conducted from Oct 13 to Oct 17, 2017, at the Taipei International Conference Center, Taipei, Taiwan.

There were 2425 participants from 46 countries attending the congress. The scientific program consisted of 541 invited speeches, 261 oral presentations and 223 posters. The presentations — medical school education, lessons learned in ent subspecialties. The organizing committee offered 3 kinds of awards to the winners of the oral and poster presentations.

At the congress, Prof Nisenbaum and Prof Nolsee organized a WFUMB Education Program, addressing the issues of global status of ultrasound in were classified into 21 Tracks according to differ- training in develop countries as well as challenges and solutions to provide ultrasound equipment to medical schools and medical students.

The attendants enjoyed the scientific program very much and appreciated the warm hospitality of the hosting society, the Chinese Taipei Society of Ultrasound in Medicine.

Cheng-Wen Chiang, MD., FAPSC, FACC Co-President, WFUMB 2017 TAIPEI Chairman, Organizing Committee, WFUMB 2017 TAIPEI

Yi-Hong Chou, MD., Chairman of International Liaison Committee, WFUMB 2017 TAIPEI

The Best Oral Awards went to :

Hiroko Yaegashi (Japan), Eriko Tohno (Japan), Yao-Wen Kuo (Tatwan), Andrew McNeill (United Kingdom), Chun-Li Wang (Taiwan), San-Kan Lee (Taiwan), Hong Ding (Chinese Mainland), Yueh-Ping Liu (Taiwan), Koji Takebe (Japan), Xianfeng Guo (Chinese Mainland), Heng-Kien Au, Chia-Hung Wu (Taiwan), Jeng-Wen Chen (Taiwan), King Hei Stanley Lam (Hong Kong), Ming-Yen Hsiao (Taiwan), Flaviu Bob (Romania), Ying-Qi Xing (Chinese Mainland), Elena Feoktistova (Russia). Ren Koda (Japan), and Kin Hung Liu (Hong Kong), the Best Poster Awards to Hye Won Kim (South Korea), Shy Yunn Goh (Singapore), Jr Soo Choi (South Kores), Yi-Ching Liu (Teiwan), Yuji Eso (Japan), Qian Yang (Chinese Mainland), Eun Joe Yun (South Korea), Cheng-jen Chen (Taiwan), Dar-In Tai (Taiwan), Wan-Ching Lien (Taiwen), Satoru Fukumoto (Japan), Eliza Morada (Singapore), Sung Bin Park (South Korea), Hyo Won Eun (South Korea), Salomi Omotehara (Japan), Li-Jen Liao (Taiwan), Wu-Huei Hsu (Taiwan), Sun Young Lee (South Korea), Mao-Hsiung Huang (Taiwan), Wen-Shiuan Shih (Taiwan), Min Hoan Moon (South Korea), Yi-Mei Wang (Taiwan), Hyun Hae Cho (South Korea), Ting-Chuan Li (Taiwan), and Ki Seok Choo (South Korea); and the Young Investigator Awards to Jin Burn Kang (South Korea), Shanling Yang (Chinese Mainland), Yang Sun (Chinese Mainland) Wan-Fu Hsu (Taiwan) Kezah Sully (United States) Yuko Kanayama (Japan), Chia-Ching Chen (Tawan), Yi-Jhin Tsai (Tawan), Xihua Lian (Chinese Mainland). Surachate Siripongsakun (Thaland), Chun-Nan Chen (Taiwan), Ming-Jen Ke (Taiwan), Christian Fischer (Germany), Masafomo Kaneko (Japan), Shin-Joe Yeh (Taiwan), Xiaoju Li (Chinese Mainland), Dong Hwee Kim (South Korea), and Xi Chen (Chinese Mainland).









FEDERATION REPORTS: AIUM Update (November 2017)

The American Institute of Ultrasound in Medicine (AIUM) has had an active several months since he annual convention this past April in Orlando,

There has been a continued effort to update and expand its website to provide more services to members. The website new has an atmost inexhaustible emount of educational materials and ultrasound resources for the many different disciplines that make up the AIUM member community. Additionally, the website is an ever-increasing ultily for those outside of AIUM seeking information regarding ultrasound use, pokey, standards and research in forth America.

One of AIUMs significant services to the ultrasound community at large and to our patients is the continued development and promulgation of dinical guidelines. New guidelines approved by AIUM in the past 6 months include: Training Guidelines for Physicians Who Evaluate and Interpret Diagnostic Obstetric Ultrasound Examinations, Training Guidelines for Physicians Who Evaluate and Interpret Disgnostic Abdominal/General Ultrasound Examinations Training Guidelines for Physicians Who Evaluate and Interpret Diagnostic Breast Ultrasound Examinations, Training Guidelines for Physicians Who Evaluate and Interpret Diagnostic Thyroid/Parathyroid Ultrasound Examinations, Training Guidelines for Physicians and Chiropractors Who Perform Ultrasound-Guided Musculoskeletal Interventional Procedures and Training Guidelines for Physicians Who Perform Ultrasound-Guided Regional Anesthesia among others.

The ARUM has also continuing to create and present webrians including focused echocardiography and point of care ultrasound in the office setting. These have been a great way to not only provide important services and education to ARUM membership but also to reach out to a new community of users in point of care ultrasound and increase their involvement in the ARUM.

The second annual course on Point of Care Ultrasound was hold at the Oregon Health Sciences University in July and was a resounding success. The course reached out to an emerging community of ultrasound users, internal medicine providers. Similarly, the AIUM is continuing to help organize and direct an annual ultrasound preconvention course for the American College of Physicians - the largest single specialty physician association in the United States, representing internal medicine. AIUM's journal, the Journal of Ultrasound in Medicine CIUM) has a massive number of articles now available as open access. Once articles are 12 months post publication they are available without cost. JUM's rejection rate continues to climb, a reflection of the increasing quality of published articles as well as increasing submission rates from around the world.

Registration is now open for the 2018 AUM annual convention to be held in New York City from March 24-28, 2018. The AUM convention always sees a large tumout when it is held in the 'Big Apple' and expectations are also high for 2018. The 2018 annual convention is bigger and more diverse than ever with oducational, research and other offerings for dozens of different specialties and fields of interest in ultrasound. The Plenary speaker will be John Lawrence, MD who is the president of the board of directors of Doctors Without Borders and he will be discussing his work for the organization, its mission and being a "Humanitation Hoalth Care Provider".

The annual 41st Annual Advanced OB-GY1 Ultrasound seminar registration is now open for registration as well and will be held February 44-17, 2018 in Oriando Florida. This has grown to be one of the larges recurring courses of its kind in existence and continues to grow and offer up to date education to a vasiaty of ultrasound specialists.

More information on these and multiple other projects and topics AIUM is currently undertaking please visit the website.

Michael Blaivas, MD, MBA, FACEP, FAIUM



FEDERATION REPORTS: FLAUS Update

FLAUS CONGRESS July 13 - 15 2017 was held in INRAD - São Paulo, Brazil

During the congress, the FLAUS Assembly was held and the new Board of Directors was elected.

- Jorge Rabat President Venezuela
- Edda Chaves Secretary Venezuela
- Fernando Huerta Treasurer Peru
- · Luis Fernando Chavarría Estrada Past President Costa Rica
- · Antonio Carlos Matteoni de Athayde President Elect Brazil





and Linkedin





SOCIETY AUGUST 2018
SICKERY AUGUSTAND
CONVENTION CENTRE
AUGUSTAND NEW ZEALAND
SOUTHCONFORMACION 20



WFUMB Vision Statement:

Through communication, collaboration and education, bring sustainable ultrasound programs to underserved areas in the world.

ISSUE 19

JUNE 2018 EDITION



Welcome to ECHOES - the newsletter of the World Federation for Ultrasound in Medicine

As the number of users of medical ultrasound expands further around the world it highlights the significance of the WFUMB slogan "Ultrasound 4 AII".

In this edition of ECHOES we report on some of the teaching activities that WFUMB has instigated. This work would not be possible without the continued support of our many volunteers and education & trade partners who freely give their time to bring ultrasound education to all regions of the world. We would also like to introduce to our readers a new segment on interviews with the ultrasound luminaries who have helped forge our profession into what it is today.

The first interview is with the Australian scientist and former WFUMB president George Kossoff.



As well as the reports from the member federations there is a listing of upcoming conferences and education offerings. I encourage you all to regularly visit the new look WFUMB website to read about the past, the present and the future of your federation.

Susan Westerway PhD Chair WFUMB Communications



AFSUMB 2018, Beyond Asia, to the world with ultrasound Seung Hyrup KIM, WFUMB President Elect

AFSUMB 2018 was held on 23-26 May to the world with ultrasound".

AFSUMB 2018 Congress was held in conjunction with ACUCI 2018 and KSUM 2018. for the congress.

The scientific program was of high quality 2018 in Seoul with a slogan "Beyond Asia, with 238 invited guests (speakers, chairs, and instructors) and 436 abstracts for scientific presentations. WFUMB President, Christian Nolsøe, was the WFUMB Lecturer Yi-Hong Chou, Dieter Nümberg, and Sue

The congress was well attended with a total of 1,795 participants from 44 countries.

There were two WFUMB-related sessions, WFUMB-AFSUMB Ultrasound History Forum and WFUMB-AFSUMB Education Forum. Christian Nolseo, Seung Kim, Byung Choi, Westerway participated to those sessions as speakers or chairs. WFUMB COE business meeting was also held.

















For more AFSUMB 2018 photos, please visit the WFUMB Website at www.wfumb.org



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The First Course in Ultrasound in the Ivory Coast

Supported by MASU and WFUMB, including the formation of the Ivorian Society of Ultrasound

Prof. Hassen Gharbi and Dr. Caroline Ewertsen

The first post-graduate course in ultrasound in the Ivory Coast was held in Abidjan from February 22-24, 2018 and included the inauguration of the Ivorian Society of Ultrasound (SIVUS). The course was established in collaboration between WFUMB, MASU and SIVUS.

Preparations had been going on for about a year especially between professor Gharbi (WFLMB and MASU) and president of the horisan Society of Ultrasound, Nigoran Kosumé. The program included initially four speakers from WFLMB, but due to uniforeien circumstances oely two were able to attend, professor Gharbi and Dr. Everthen. The program covered a wide variety of ultrasound applications— MSK, abdominal, pediatrasound applications— MSK, abdominal, pediatrasound services, cardiology and breast—and lectures were given by local, regional and the WFLMB (extures. The Regional speakers included Dr. Sokhna Bah (Senegal), Dr. Sonhaye Latam (Togo) and Dr. Niklems Zakara (Burkton Faso). All lectures were given in French.





"There seems to be a great potential for ultrasound in the region and a great interest from the doctors and other medical personnel." In total 128 participants were registered (80 radiologists, 3 midaives, 20 gynecologists, 7 cardiologists and 13 technicions and engineers), mainly from the Ivary Caast.

All were very eager to learn and every session was followed by a discussion between speakers and participants. The level was generally high, and it was great to see the enthusiasm from the perticipants.



The course was held in Hotel Ia Rose Blanche, which also hosted the technical exhibition with GE, Sensung, Chison and Torbiba systems. These companies also helped with equipment for the hands-on sessions in the afternoons, where participants scanned healthy volunteers.

We kindly wish to thank the companies sponsoring the course – without their help the course would probably not have been realized.

During the course, the horian Society of Ultrasound was established with participation from people from the local university (Université Filia; Houphouet Boigny), and from the organization CIFRAP, responsible for the education of radiolopids in the Fernath speaking part of Africa (Centre International de Formation des Radiologistes de l'Afrique Francophone). During the hauguration lecture professor Charbi offered the books "Manual of Diagnostic in Ultrasound, vol. 1 and 2" on behalf of WTUMB to the new society represented by Dr. Nigoran Kousani.

Hopefully, future courses will follow in the region, for instance in Burkina Faso or Senegal.

A Coli is already established in Lomé (Togo), and Dr. Sonhaye fatam was invited as lecturer and represented this society. There seems to be a great potential for ultrasound in the region and a great interest from the doctors and other medical personnel.

We kindly wish to thank all the participants, the local and international course organizers and the sponsors.





The new www.wfumb.org

A Progressive Website & App taking our Federation into a new digital era

Suzanne Cain, WFUMB Web Administrator





The updated WFUMB website /App (PWA) is now live on the www.wfumb.org domain name. The Site/App was Isun-ched last week and is currently going through tests to be released for download on Apple Store and GooglePlay shortly, but you don't have to wait as the App can be already be loaded by visiting www.wfumb.org on your mobile device and clicking on the 'Add to Home Screen' on your phone menu. This will add the WFUMB App to your own mobile device with an App icon for instant access on the move. The new site is an escellent starting point for greater developments over the coming months.

With plans for cases and more ultrasound images, up-to-date ultrasound news, COE Courses, interviews and content from right across the world.

WFUMB site is only as great as its contributions and its important that it stays current in its coding and development but more importantly in its content.

We need to make sure the site is showing all the information we as a group need, but most importantly, information people will be looking for when searching for WFUMB.



TUNISIAN SOCIETY OF ULTRASOUND CONGRESS 5 — 6 October 2918

TUNIS

Visit: http://www.sted-tn.com/

We plan to publish more tech-friendly content as well as the usual images, photographs, text and reports including:

- ~ Videos hosted on our own WFUM8 Channel
- ~ Podcasts
- ~ E-books and publications
- ~ Live Broadcasts from key events
- ~ Webinar broadcasts with key speakers

In addition to all of the above we are starting a worldwide Ultrasound Calendar of events a one stop information rich calendar so you can plan your entire year.

Help make the WFUMB site great!

Do you have interesting cases, publications or reports? Are you taking part in an upcoming ultrasound event? Are you interested in contributing to our site on a regular basis? or maybe, you have an idea for other types of content you think the WFUMB site needs ...

Get in touch ... WFUMB@kosmos-design.co.uk

13 SEPTEMBER 2018 15.00 CEST



GIUS Ultrasound

The first joint WFUMB-EFSUMB Webinar is now planned for 13th September 2018 at 15.00 CEST and is on the topic of

GIUS Ultrasound

Chaired by Prof. Odd Helge Glja with Presenters: Krn Nylund (Bergen), Steythonie Wilson (Calgory), Giovarni Macori (Milan) & Carlo Serra (Bologna)
REGISTRATION LINK TO FOLLOW on the WFUMB (www.wfumb.org) and EFSUMB (www.efsumb.org) websites



PAGE 4 [JUNE 2018]



Prof Paul Sidhu's first year as EFSUMB President has seen the Publication of the CEUS non-liver Guidelines Udder2017 and Parts 1 and 2 of the Gastrointestinal Ultrasound (GIUS) Guidelines with Parts 3-7 to follow shortly. The Elassinguist monitoring under the promoted and will be submitted to the EFSUMB Journal, UMI/EU for publication in early 2018. We are using a guidelines voting latform to assist these publications.

EFSLMB webinars are rows a feature in the calender covering not just CEUS. It is hoped to cover more topics, including GIUS, Bassepraphy and Endoscopic Ultrasound. The webinar archive is proving popular although the Case of the Month remains the most visited area of the EFSLIMB websites. We invite submissions from other federations of interesting cases with images.

The next EFSUMB Congress will take place in Poznan, Poland 6-9 September –please visit the website to view the programme:

yww.euroson2018poznan.pl/en/

In 2019, the Euroson congress will take place in congress will take place in Grenads, Spain 26th of May to 1st of June. In 2020 the Euroson congress will be arranged 11-13 June in Bergen, Nonway, You are most welcome to attend the Euroson congresses even if you belong to other federations.

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 and each 2nd Edition chapter can be downloaded



EFSUMB is working closely with other European organisations — ESR, EASI, and UEG- to bring ultrasound sessions and learning areas to these large meetings. Please visit the EFSUMB website for the latest in ultrasound news www.efsumb.org

Bergen, May 2018,

Odd Helge Gilja

EFSUMB Past-President 2017-2019, Chairman WFUMB Education Committee

WFUMB Administrative Councilor

UPCOMING EUROSON SCHOOLS



Musculosheletal Sonography Course for Rheumatologists
- Internacional Level
EUROSON SCHOOL

EUROSON SCHOOL
Innsbruck, Austria 5 - 7 September 2018



Chest Ultrasound

EUROSON SCHOOL Kosice, Slovakia 20-22 September 2018



Musculoskeletal Sonography Course in Rheumatology

EUROSON SCHOOL

Advanced Leve

Graz, Austria 7 - 9 November 2018



Liver Elastography

EUROSON SCHOOL
Timisoara, Romania 23 - 24 November 2016





As social networks become global and ease of travel to far-flung destinations grows easier, the world seems to grow ever smaller.

The Latin American Federation of Societies for Ultrasound in Medicine and Biology, as an ultrasonography reference in Latin America and as an integrator of the countries members, is pleased to announce that in 2018 we are offering the following events in the members societies and affiliated entities:



48th São Paulo Radiological Meeting (JPR 2018)



May 3-6, 2018 Trasamerica Expo Center - São Paulo, Brazil. http://www.jpr2018.org.br

Congreso Nacional e Internacional de US y Congreso EuroAmericano de Medicina Fetal



July 25-28, 2018 Hotel Real de Minas - Querétaro, México. http://fmacu.com/

Actualización de US en tejidos blandos y ECO-FAST



June 2-4, 2018 Ecocaribe Centro Médico - Barranquilla, Colombia. http://tienda.acomesf.org

I Congreso Internacional de US MSK y Tesiones deportivas



August 3-5, 2018 Hilton Miraflores - Lima, Perú.

http://www.spumb.pe

X Simposio de la Sociedad Dominicana de Sonografia y 1er Simposio de Ecografía pediátrica



Hotel Catalonia - Santo Domingo, Republica Dominicana. http://www.flaus-us.org

XLVII Congresso Brasileiro de Radiologia - CBR18



October 11-13, 2018 Windsor Convention & Expo Center - Rio http://congressocbr.com.br

I Congreso Internacional de Ultrasonido



June 28 - 30, 2018 Mont's Hotel – Huehuetenango, Guatemala. https://www.facebook.com/ASOGU-Asociacion-

Gustornalloca-do-Ultrasonido-

Congreso de la Asociación Boliviana de Ultrasonido



November 1-3, 2018

Congreso Internacional de Ultrasonido en Medicina



July 18-19, 2018 Hotel Crowne Plaza El Salvador - El Salvador. http://www.flaus-us.org

It seems all signs point to now being the perfect time to plan a trip to the region. See you!

Ana Chavarria, MD.

FEDERATION REPORTS: AIUM 2018 Meeting in New York

On Tuesday 3/27/18 morning we had multiple activities related to US in Global Health:

Advances in Ultrasound in Global Health Session 8:30-10:00 am (3 presentations) - click on the links to view .

Michael Schick-Ultrasound Education and Its Implications for Global Healthcare Delivery - View presentation @UltrasoundStuff SonoStuff.com





WFUMB2019 hosted by ASUM in Melbourne

The Australasian Society for Ultrasound in Medicine (ASUM) is a multidisciplinary society whose mission is to advance the clinical practice of diagnostic medical ultrasound for the highest standards of patient care. We have the honour of bringing this mission to the global community as we host WFUMB2019 in Melbourne.

The amazing scientific committee, made up of medical and sonographer specialists, are hard at work putting together a fantastic program to stimulate, inspire and challenge your learning and current practice in many areas of ultrasound including:

- Cardiac - Critical care

- Physiotherapy
- Critical care
- Radiology
- Emergency medicine
- Respiratory
- General Practitioner
- Rheumatology
- Gynaecology
- Scientific - Sonography
- Hepatology
 Midwifery
- Sports medicine

- MSK

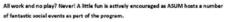
- Surgical
- Neonatology
 Nursing
- Therapeutic
 Urology
- Obstetrics
- Urology
 Vascular

- Physics

The trade exhibition offers delegates the opportunity to engage with key industry suppliers and gain the latest information about their offerings, be it education, employment, systems and technology. We encourage you to visit our sponsors and thank them for their support. For all our sponsors and exhibitors, if you haven't received your prospectus for WFLIMB2019, please contact us on <u>assum@assum.com.au</u>







This is a great chance to network, meet with old friends, make new connections and enjoy a little downtime. You can be part of this too!

Abstracts open 3 September 2018

Registrations open 3 December 2018









See you there!



Report on the visit to INCAN 6th February 2018

Sue Westerway





In February the WFUMB councillors visited the el Instituto de Cancerlogia Hospital in Guatemala City, Guatemala has a population of over 15 million and the INCAN is the only public operated cancer hospital in the country. As such, it sees over 25,000 patients per year and is the only public hospital equipped to provide oncology treat-

INCAN was founded in the 1950's and built with the support of Uga Nacional Contra el Cancer and Rotary. The most prevalent cancer seen at the hospital is stomach and gastrointestinal, whilst in women there is a very high incidence of cervical cancer.

A planned ultrasound course to coincide with our council meeting was unexpectedly cancelled a few weeks before our visit and so only a tour of the hospital took place. WFLMB Councillors were welcomed by a delegation of hospital officials and visiting fellows before being taken to see the imaging facilities. The ultrasound department consisted of two machines that were over 15 years old but both still gave reasonable images. The very capable nursing and radiography staff have been trained to assist with scanning the heavy workload.

Later that day the INCAN directors and members of the Guatemalan Ultrasound Society joined the WFUMB delegation to discuss future collaborations for courses that could assist with ultrasound education in the country.

INCAN has one old US unit, a Philips Enrico. They are in great need of a new US unit. RAD-AUS's mission is to improve ICAN's Radiogy department and WPUMB's mission is to help bring a sustainable stransound program. Working together, WPUMB and RAD-AUD hope to achieve both missions.

Read a full report on this from Harvey Nisenbaum >>







WFUMB COE Progress and Future Plans

| WFUMB CoE meetings | Date | Topics | Organiser | Venue |
|--|---|--|--|--------------------------|
| 2018 | | | | |
| Chartoum, Sudan | 8 - 12 January | US in Gastroenterology and Surgery, Endoscopic US | Dr. Suzan Elhakim | Corinth-Hotel Khartoum |
| Dhaka, Bangladesh | 2-3 March | 20th Workshop | Prof Kanu Bala | |
| Jakarta, Indonesia | 23-24 March | EUS | Dr Daniel Makes | Harris Hotel Jakarta |
| Nairobi, Kenya | March | | Prof Sudhir Vinayak | T |
| Brasov, Romania | 17-18 May | Postgraduate Course of WFUMB COE Timisoara - What's ne | | Brasov |
| Nairobi, Kenya | June | | Prof Sudhir Vinayak | |
| Chisinau, Moldovia | 15-16 kine | US Sommer School | Dr. Sergiu Pulus | Chisinau |
| Timisoara, Romania | 29-30 June | Ultrasound Course for Fellows in Gastroenterology | Prof. Ioan Sporea, Prof. | Timisoara, Romani |
| Ulaanbaatar, Mongolia | 25-26 July | 6th WFUMB CoE Workshop | Prof Sonin Sodov | Ulaanbaatar, Moneolia |
| Ulaanbaatar, Mongolia | 25-26 July | "Mongolian Mindray Ultrasound Forum" 27 -28 July 2018 | Dr. Enkhbayar Dondog, | Ulaanbaatar, Mongolia |
| Caracas, Venzuela | September | Internal medicine | L Fernadez | |
| Nairobi, Kenya | October | Annual conference - Breast | Prof Sudhir Vinayak | |
| Chisinau, Moldovia | 26-27 October | COE Meeting GIUS | Dr. Sergiu Pulus | Chisinau |
| Arba Minch, Ethiopia | 12-16 November | COE Course | Amir Sultan | |
| Timisoara, Romania | | EFSUMB Endorsed Course- Contrast Enhanced Ultrasound | Prof. loan Sporea | Timisoara, Romani |
| Timisoara, Romania | 23-24 Nov | EUROSON SCHOOL Course - Liver Elastography | Prof. Ioan Sporea | Timisoara, Romani |
| Timisoara, Romania | Nov | ABC in Ultrasound - course for students | Alina Popescu | Timisoara, Romani |
| Nairobi, Kenya | December | | Prof Sudhir Vinayak | |
| | | | | |
| 2019 | | | | |
| Chartoum, Sudan | January | US & EUS Workshops in conjunction with GE Conference | Dr. Suzan Elhakim | Corinth-Hotel Khartoum |
| Dhaka, Bangladesh | 1-2 March | 21st Workshop | Prof Kanu Bala | CO MILITHOLE PAIGH LOCAL |
| Timisoara, Romania | april | ABC in Ultrasound - course for students | Roxana Sirii | Timisoara, Romania |
| renisoara, nomania | apre | WFUMB COE Timisoara Annual Workshop - US in | nonaria se ii | Lenguera, nomania |
| | | | | |
| Mariana Mariana | 24-25 May | Emergencies, in conjunction with SRUMB National Conference | | F- 14 B |
| Timisoara, Romania | | | Prof. Ioan Sporea | Tg. Mures, Romania |
| Timisoara, Romania | June | Ultrasound Course for Fellows in Gastroenterology | Prof. Ioan Sporea, Prof. | Cluj Napoca, Romani |
| Ulaanbaatar, Mongolia | | 10. Anniversary WFUMB CoE | Dr. Enkbar Dondog | |
| Kampala, Uganda | october | Kampala WFUM8 COE event | Prof. Michael Kawooya | |
| Timisoara, Romania | 14-15 Nov | Euroson School - CEUS non liver applications | Prof. Ioan Sporea | Timisoara, Romania |
| Timisoara, Romania | 15-16 Nov | EUROSON SCHOOL Course - Liver Elastography | Prof. Ioan Sporea | Timisoara, Romania |
| Timisoara, Romania | Nov | ABC in Ultrasound - course for students | Alina Popescu | Timisoara, Romani |
| Timisoara, Romania | | Workshop in cooperation with WFUMB COE Chisinau | Prof. Ioan Sporea | Chisinau, Moldova |
| | | | | |
| | | | | |
| no plan 2018 | | | | |
| Kampala, Uganda | | postponed ! | | |
| | | | | |
| | | awaited | | |
| Lagos, Nigeria | | awaited | | |
| Lagos, Nigeria | | awaited | | |
| Lagos, Nigeria Caaguazu, Paraguay | | awaited | | |
| Lagos, Nigeria Caaguazu, Paraguay additional WFUMB sup | | awaited awaited awaited | | |
| Lagos, Nigeria Caaguazu, Paraguay additional WFUMB sup Abidjan, Ivory Coast | 22-24 February | avaited avaited avaited avaited Abdomen, Paediatric, Obstettrics, Cardio-vascular, Interven | | |
| Lagos, Nigeria Caaguazu, Paraguay additional WFUMB sup Abidjan, Ivory Coast Fiji | 22-24 February 27-29 September | avaited avaited avaited avaited Abdomen, Paedistric, Obstettrics, Cardio-vascular, Interven WFUMS supported Course Abdominal US | A/Prof. Sue Westerway | |
| Lagos, Nigeria Caaguazu, Paraguay additional WFUMB sup Abidjan, Ivory Coast Fiji | 22-24 February | avaited avaited avaited avaited Abdomen, Paediatric, Obstettrics, Cardio-vascular, Interven | | |
| Lagos, Nigeria Caaguazu, Paraguay additional WFUMB sup Abidjan, Ivory Coast Fiji Tirana, Albania | 22-24 February 27-29 September 14-16 December | avaited avaited avaited avaited Abdomen, Paedistric, Obstettrics, Cardio-vascular, Interven WFUMS supported Course Abdominal US | A/Prof. Sue Westerway | |
| Lagos, Nigeria Caaguszu, Paragusy additional WFUMB sup Abidjan, Ivory Coast Fiji Tirana, Albania Regional COE Director II | 22-24 February 27-29 September 14-16 December Meeting | availed availed availed availed Abdomen, Paediatric, Obstettrics, Cardio-vascular, Interven WFUMB supported Course Abdominal US WFUMB supported Course Abdominal US | A/Prof. Sue Westerway Prof. Durim Celim | |
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WFUMB Interviews with ultrasound luminaries:

George Kossoff

ASUM President 1970-1972, WFUMB President 1982-1985

tiow and when did you become involved in ultra sound?

I graduated from the University of Sydney in March 1959 with a Bachelor degree in Scierose in Physics and Mathematics and a First Class Honors degree in Electrical Engineering. At that time I considered applying for a position as research scientist in nuclear physics at the Atomic Energy Commission.

The day after the results were announced, Norman Murray, the Director of the Commonwealth Acoustic Laboratories, approached me and invited me to set up and head the to be formed Ultrasonics Research Section at the Laboratories. Murray had been keeping an eye on the emerging publications on medical ultrasound. He had attended a meeting of the NHMRC where concern was expressed regarding the use of X-rays in pregnancy and was aware of the first publication by Donald on the use of ultrasound to investigate abdominal masses. He felt that Australia should also begin to undertake research into this emerging field of medical ultrasound and that the Acoustic Laboratories were an appropriate venue for this research.

Norm Murray persuaded me to accept his invitation on the basis of his description of modical utrasourid as a field in the early stages development where it would be easier to make meaningful contributions. As there was no one in Australia with experience in utrasound I was to report directly to him as a Section Head. In recognition of this responsibility my appointment would be at a grade higher than that normally offered to a raw graduate. In other words he made me an offer which I just could not refuse and I commenced duties at the Laboratories on 10th of Merch 1950.

At that time seven groups were undertaking research into medical ultrasound. In the United States, Wild and Reid in Minneapolis were

investigating imaging the breast, Howry and Holmes in Denver the abdomen, Baum in Champaign-Urbana were using high intensity ultrasound to create trackless lesions in the brain. In Europe, Donald in Glasgow was applying ultrasound to examine the pregnant uterus while Edler and Hortz in Malmo were studying the applications of M-mode to image the heart. Finally in Japan, Wagai in Tokyo was the second investigator to begin to image the breast. Our research into obstetrical applications commenced in September 1959 with the appointment of Bill Gerrett as clinical consultant to the Section. We were thus the second group internationally to begin research into imaging in obstetrics.

Were there any particular people that influenced

I was very fortunate to have had capable cotteagues who wanted to join our Section and to cotteborate with all as an interdisciplinary team. There were no waits between researchers working on different projects nor from our medical consultants in different professions; Ideas were exchanged treaty in weekly review meetings where our successes, obstacles or failures were presented and discussed. In this way we all contributed to wards our common objective of advancing our knowledge and contributions to medical utrasound.

I would however like however to single out several individuals who made major contributions that influenced my work.

Internationally -1 was very much impressed by the work of Doug Howy and Joe Holmes who, using the water coupling technique, published detailed images of the human neck and lower lamb. This was the main reason as to why our Section, tafer to become the independent Ultrasonics Institute, chose this approach to examine the pregnant abdomen and the breast.

I also closely followed the research conducted by Bill Fry and his team who put together a team of scientists, engineers and medical doctors to produce trackless lesions in the human brain and used this method to study the interconnections between nuclei in the brain of the cat.

Australia - I was introduced to various aspects of clinical practice by Bill Garrett in obstetrics and by Tom Reeve in the breast. They were both excellent teachers and with time we developed a team approach to identify the structures in the human body that had not been previously imaged by ultrasound. The imaging of artifacts posed challenges but with time we learned how to identify those and even obtain useful clinical data from their portrayal. In was not uncommen for us to publish technical or clinically oriented papers depending on who was the senior person making the original observation and putting it into practice.

Dave Robinson joined the Section eighteen months after my appointment. We had mutual respect for each other abilities and developed a close working relationship. Dave was a practical man and was the person in charge of designing the electronic signal processing and mechanical requirements of our scanners. My contributions lay in the philosophical approaches as to how to handle the complex data acquired by the scanners and in the design and construction of the transducers used in our research.

In 1975 we developed the UI Octoson. In this scanner the patient lay essentially on a water bed and was examined from below by eight annular array transducers. Single and compound scans were obtained quickly and all the features of the scenner were controlled by a computer. Many radiologists and obstetricians expressed interest in acquiring this equipment.



The Australian Government went to tender to select the company to manufacture this scanner and the Nucleus Group was selected to do so. The Chairman of the Group was Paul Trainor, an Australian enterprenor, who had set up several medical companies including Telectronics and Cochlear, Ausonics Pty Ltd. was established to build the UI Octoson and I was asked to help Paul introduce the scanner to the market. This included many meetings with individuals and companies interested in the venture. Paul, a true centleman, was an excellent negotiator and I learned a lot from him how markets work. The UI Octoson was manufactured in Sydney and over five years nearly two hundred of these scanners were sold world wide.

What were your career highlights?

Here is a chronological list of my career highlights:

1959 Joined the Commonwealth Acoustic Laboratories and began research into medical ultrasound

1962 Obtained our first black and white obstetrical scans. The outline of the testal head and trunk wen clearly displayed as well as some internal fetal organs such as the spine, the heart and the bladder. This allowed us to make accurate assessment of fetal wellbeing from size measurements, diagnosis of asymmetrical growth retardation and of enomalies that cause bladder obstructions.

1983 Developed techniques to measure the acoustic output of therapeutic and diagnostic transducers. This allowed us to measure the output of different transducer designs and to select those that minimized patient exposure. 1985 With Bill Garrett as senior author pubtished the flist detailed paper on our ability to visualize the felus and the clinical relevance of this information.

1987-1992 Two year substitical with Bill Fry. Bill was putting logether a sconner which had lesion making as well as imaging capabilities. Bill at that time was President of the AUM and he appointed me Vice President to help stage the AUM 1998 Congress. AUM Congresses had been focused mainly on physiotherapy applications and biological effects. It was interested in incorporating diagnostic imaging as a major component of the 1998 Congress. Unfortunately Bill ded suddenly in 1998 and, as stiputated in the AUM by-laws, I become President for the next year and a half. This Congress marked the transition of the AUM from a physiotherapi. focused organization to one whose major interests are diagnostic applications. 1969 Establishment of ASUM Shortly before my return to Australia, I attended the First Congress of WFUMB held in Vienna. On my return I presented a summary of that Congress at an ad hoc meeting of the staff, our medical consultants and other individuals who had an interest in diagnostic ultrasound. At that meeting it was unanimously agreed that a society representing Australian interest should be formed and be named the Australian Society of Ultrasound in Medicine. I had the privilege of being elected Foundation President of the Society and served in that capacity for the next two years. The Society flourished and undertook action not only to promote scientific and clinical applications but also to concentrate on issues of education. One of my greatest satisfactions is to see ASUM flourish to the extent that it has achieved to date, and to see the use of ultrasound in Australia second to none. 1969 Development of Grey Scale Imaging During the last month of my stay in Illinois, I noted that when medium levels of power output were used to image the liver of the cat, the soft tissues reflected echoes of similar size irrespective of the direction of the scanning beam. I realized that the texture of soft tissue reflected the ultrasound energy in a diffuse manner. This was in stark contrast to the specular echoes obtained from large interfaces with which we were familiar. This led us to redesign transducers and signal processing to display, for the first time, the diffusely reflected echoes - in effect, the first grey scale

Juck kellns and I implemented grey scale maging late that year on our breast scanner. This scanner was installed at Royal North Shore Hospital, where Tom Reeve was our senior medical consultant on the project. The change in image qualify was dramatic. Grey scale imaging allowed us to demonstrate, contrary to the generally held opinion at that time, that most malignancies were hypo rather than hypor echoic as described by Wild and Wasail.

Davo Robinson and I implemented grey scale on our obstotrical scanner early the following year, with Bill Garrett as our medical consultant. For the first time we could visualize the chambers of the total heart, identify the fotal umbilized vein in the fotal liver and, as an immediate pay off, visualize with near 100 percent accuracy the placenta. Bill Garrett and I mounted a display of our images at the next WFUMB Congress held in Rotterdam in 1972. The interest in these was dramatic as no one had seen such images previously. 1973 Establishment of ultrasound of the neo-

That year a fetus with ventriculomegaly was

observed leading us to determine if we could achieve similar results in the necessation with radiologists from Prince of Wales Hospital, ten neonates undergoing air ventriculography were also eximined by ultra-sound. Ventricular sizes messured by both methods were in agreement and all further neonatal patients from that hospital were examined by ultrasound only.

1975 Research conducted by the Section differed significantly from that undertaken by the Commonwealth Acoustic Laboratories.

ment of Health. 1982 I was elected President of WFUNNB for the following three years. The Sydney WFUNB Congress was held in 1985 and attended by over one thousand delegates. The staff of the Institute played a major role in

Encouraged by our clinical successes and

interest in the equipment by clinicians and industry, the Section was formed as an inde-

pendent Ultrasonics Institute in the Depart-

staging this Congress. 1989 The Utrasonics Institute was transferred to the CSIRO (Commonwealth Industrial and Scientific Organisation) and renamed the Utrasonic Laboratory.

1997 The Ultrasonic Laboratory was closed signaling the end to uniform ultrasound research in Australia.
1999 I was awarded the AO, an Officer of the

Order of Australia.

What are your impressions of the ultrasou technology available today?

This is a hard question for me to answer, as I have been retired for 15 years. My impression is that uttrasound bethnology has matured. The equipment is using modern computer technology, the frequency range has been significantly enlarged and a variety of functions have been incorporated in the equipment to facilitate its use in a viniety of applications. Ultrasound has been accepted by a range of specialties, and some of the challenges of today realite to the prevision of education and training in the correct use of the equipment in professions where the technique forms a small component of the practice.



Challenges and opportunities still abound. I do not know the status of ultrasound contrast agent and this could well be a major application. I am surprised that modern equipment still does not provide quantitative measurement of blood flow. The use of two dimensional transducers appears to have stalled. The problem of overlying tissue abornation has not been solved. So opportunities exist but how well they will be addressed depends on funding in a climate where interest has shifted to MRI and modecular imaging.

Are you still involved with the ultrasound world?

I try to follow the ultrasound literature as I am in a fortunate position to receive major journals that feature ultrasound. Unit recently I have been involved with the WFUMB Council as member of its Committees on History and on Archives. At the request of Michael Claudon, Barry Goldberg and I put together a paper." History of Ultrasound and its Presidents." This paper is published on the WFUMB website in the section on History. Today I am not involved with any ultrasound activity.



George Kossoff, Tom Reove Jack Jellins (1977)

WFUMB CENTER OF EDUCATION CHIŞINĂU, REPUBLIC OF MOLDOVA

In 2016 a new WFUMB Center of Education was opened in Chişinäu, Republic of Moldova. The center is coordinated by the Ultrasonography Training Center of the "Nicolae Testemițanu" University of Medicine Chişinäu.

The first workshop of the center was organized in 4-5 November 2016 in cooperation with the ESSUMD Utranound Learning Center of the "Victor Babes" University of Medicine and Pharmacy in Timispara, and benefited from the participation of Prof. Dieter Nürnberg, WFUMB Vice President on Education tagether with Prof. Joan Sporea, director of the ETSUMB Utrasound Learning Center Timispara; Assoc. Prof. Roxana Şirli, Lecturer Mirela Dānilā from the same center.

The workshop covered topics related to abdominal ultrasound and hepatic elastography, and was attended by approximately 200 participants.



The interest of the ultrasound community from Republic of Moldova for these workshops is proved by the large number of participants and their involvement in the sessions.

This year the center will organize again a workshop on an abdominal ultrasound topic – Gastroinestinal Ultrasound. The workshop is scheduled for 26-27 October 2018, and will have Prof. Harald Lutz, Prof. Dieter Nürnberg, Prof. Odd Heige Gilja and Prof. Ions Soorna as Investe is peakers.

Alina Popescu



The second workshop of WFUMB Center of Education Chipinău was held 24-25 November 2017 in Chişinâu. The main topics of the course were the ultrasound diagnosis of thyroid and breast diseases, covered by the invited lecturers, Prof. Joan Sporea ("Victor Babes" University of Medicine and Pharmacy, Timisoara), Assoc. Prof. Dana Stolan ("Victor Babes" University of Medicine and Pharmacy, Timisoara) and Assoc. Prof. Aristida Georgescu (Craiova University of Medicine and Pharmacy). Besides the theoretical presentations, a live demonstration session was also organized. The course was attended by 179 physicians from all over the Republic of Moldova and took place in a friendly atmosphere, participants being actively involved in discussions with lecturers.





Congress History

The first recorded **World Congress on Ultrasound in Medicine and Biology**, the WFUMB 1976 took place in San Francisco.

| Event | Location |
|--|-------------------------|
| WFUMB 1976 WFUMB President: G. Baum, USA, Ophthalmologist (1973-76) | San Francisco, USA |
| WFUMB 1979 WFUMB President: Wagal, Japan, Gastroenterologist (1976-79) | Miyazaki, Japan |
| WFUMB 1982 WFUMB President: H. Mueller, Switzerland, Neurologist (1979-82) | Brighton, UK |
| WFUMB 1985 WFUMB President: G. Kossoff, Australia, Physicist (1982-85) | Sydney, Australia |
| WFUMB 1988 WFUMB President: H. E. Thompson, USA, Obst/Gyn (1985-88) | Washington, USA |
| WFUMB 1991 WFUMB President: F. Weill, France, Radiologist (1988-91) | Copenhagen, Denmark |
| WFUMB 1994 WFUMB President: M. Fukuda, Japan, Gastroenterologist (1991-94) | Sapporo, Japan |
| WFUMB 1997 WFUMB President: B. Goldberg, USA, Radiologist (1994-97) | Buenos Aires, Argentina |
| WFUMB 2000 WFUMB President: H. Lutz, Germany, Internist (1997-2000) | Firenze, Italy |
| WFUMB 2003 WFUMB President: H. Watanabe, Japan, Urologist (2000-03) | Montreal, Canada |

