



ECHOES

WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY

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

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.

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

- Education Projects: Asia, Africa, Latin America **2**

- Centers of Excellence
- WFUMB Leadership **3**

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

- Supporting Local Programs
- President's Farewell **5**

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

- Affiliate Updates
- WFUMB2011: In Appreciation **7**

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—AIUM, 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 (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 America.

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

WFUMB Education Projects

ASIAN EDUCATION PROJECT



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

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

The course was organized by Wilaiporn Bhothisuwan, who was president of the MUST at that time. The meeting was held in the 50 year Royal Jubilee Building, which belongs to the Thai Medical

Association, and in conjunction with MUST Annual Scientific Meeting.

The program included lectures, live demonstrations, and post tests. Masatoshi Kudo, WFUMB's president-elect, and WFUMB Administrative Councilors Byung Ihn Choi and Seung Hyup Kim lectured on behalf of WFUMB. There were 320 participants including 150 residents from Thailand, Indonesia, Laos, and the USA.

continued from p1

modules to aid in ultrasound training, represents a significant step forward in WFUMB's ability to provide a global product that can be utilized anywhere, at any time. Although development of the product will require a significant investment, once created, the implementation costs will be minimal. Education Committee member Paul Dubbins is spearheading this intensive effort with an initial focus on obstetrical ultrasound. The hope is that a basic ultrasound training module will have a tremendous impact on the maternal-fetal mortality rate in the targeted regions.

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.



AFRICAN EDUCATION PROJECT

- Three courses have been held in Lusaka-Zambia (8-12th Feb 2010), Tripoli-Libya (25th to 27th June 2010), and Kigali-Rwanda (12-16th 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 (KESUMB).
- 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 planed through WFUMB umbrella. Support to societies through scholarship, donations, visiting professors program. Possible creation of the second African WFUMB 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, Guatemalan Ultrasound Society, April 15 - 17, 2010, Guatemala
- 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 Ultrasound Society, Breast Ultrasound, May 7 - 8, 2010, Dominican Republic
- Mexican Federation of Ultrasound/FLAUS Congress, July 29 – 31, 2010, Acapulco, Mexico
- The 8th International Ultrasound Symposium Neurosonography course –FLAUS, Costa Rica Ultrasound Society, September 30 - October 1 - 2, 2010, San Jose, Costa Rica
- FLAUS-AVUM Ultrasound Congress, Venezuelan Ultrasound Society, October 7 - 9, 2010, Puerto La Cruz, Venezuela
- Brazilian College of Radiology/WFUMB-FLAUS Course, October 9 – 12, 2010, Rio de Janeiro, Brazil

WFUMB Centers of Excellence (COEs)



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." Invited 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.

COE LOCATIONS AND LEADERSHIP

Bangladesh Society of Ultrasonography

Dhaka, Bangladesh; Established 2004
Secretary: Kanu Bala

Indonesian Society of Ultrasound in Medicine

Jakarta, Indonesia; Established 2011
Secretary: Daniel Makes

Romanian Society of Ultrasound in Medicine and Biology

Timisoara, Romania; Established 2007
Secretary: Ioan Sporea

Sociedad Venezolana de Ultrasonido en Medicina

Caracas, Venezuela; Established 2005
Secretary: Leandro Fernandez

Uganda Association of Sonography

Kampala, Uganda; Established 2004
Secretary: Michael Kawooya

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 responsible 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

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:

David Evans (United Kingdom - EFSUMB)

Treasurer:

Beryl Benacerraf (USA - AIUM)

Immediate Past President:

Giovanni Cerri (Brazil - FLAUS)

Administrative Councilors

Joshua Copel (USA - AIUM)

Norbert Gritzmann (Austria - EFSUMB)

Michael Kawooya (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.

Making a Difference? Absolutely!

GLOBAL ULTRASOUND EQUIPMENT DONATION FOUNDATION (GUEDF) - A TESTAMENT TO SAVING LIVES

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

she be developing some kind of ugly tumor, I wondered? It didn't seem to be connected to either the liver or the spleen. I advised her that we needed to do another ultrasound, 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."



"Committee work is the driving force behind our successes. It is essential to recognize those that continually and tirelessly contribute to the mission of the organization."
Michel Claudon

"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 worrying 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 ugly 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,

(continued)

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

Ronald Benzie

Nominating Committee

Masatoshi Kudo

Safety Committee

David Evans

Publications Committee

Michel Claudon

Public Relations Committee

Masatoshi Kudo

Education Committee Brainstorming Session

The WFUMB Education Committee and officers participated in a brainstorming session on February 24-26, 2011 in San Jose, Costa Rica. Leaders from several WFUMB Centers of Excellence, as well as educators from various parts of the world contributed to the success of the meeting, providing a first-hand accounting of the challenges faced every day in performing ultrasound education with minimal resources. The generous hospitality of the Latin American Federation of Ultrasound in Medicine's (FLAUS) leadership was outstanding. FLAUS joined with WFUMB for a portion of the time to discuss plans for WFUMB 2013.



Supporting Local Programs to Educate the Educators



Equipment Donation to Nigeria



Training Session in Tanzania



Training Session in Zambia



MASU Course in Tripoli

(continued)

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 resorption 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 able to remove it safely."

"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."

President's Farewell

Looking retrospectively at the last two years, it is clear that the primary focus of my term as WFUMB president has been on collaboration. In an age where the global community has so many opportunities to interact, I am confident that WFUMB's educational endeavors are contributing to the development of strong clinical practices of ultrasound worldwide.



In 2009, WFUMB expanded relations with the International Society of Radiology (ISR), and together, both have agreed to a joint educational project in Africa, equally funded by both organizations. ISR President N. Gourtsoyannis, along with L. Martí Bonmatí will speak at WFUMB 2011, and WFUMB, who sent speakers to ICR 2010, will participate again in ICR 2012.

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

I, along with European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) President Christian Nolsøe, have worked closely to coordinate and 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." Experts from all over the world have contributed to the revisions, working both in-person and online. Input from our Asian colleagues was particularly important to ensure the final product represented a global practice of CEUS.

As I come to the end of my presidency, there is a bit of nostalgia associated with holding a WFUMB congress in Vienna - WFUMB's first congress was held here in 1969. WFUMB has grown tremendously in its 42 years and now represents over 54,000 individuals from all over the globe. While we appreciate how far we've come, we know we wouldn't be here today if it weren't for those who started it all. A number of the 1969 congress organizers will present "How Everything Started - Meet the Pioneers" during WFUMB 2011. A fitting closure as I feel it is very important to look to the past while heading into the future.

Michel Claudon
President, WFUMB

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 Ultrasound in Medicine and Biology (WFUMB) and the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) brought together a panel of 36 European (UK, Germany, Italy, France), North American (USA, Canada) 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 Recommendations for Contrast-Enhanced Ultrasound (CEUS) of the Liver," were produced by EFSUMB (Ultrashall 2004 and 2008).

"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 international experts representative of different practices of CEUS worldwide," said WFUMB president Michel Claudon, who co-chaired the meeting with EFSUMB president Christian Nolsøe. The plan is to simultaneously publish the resulting guidelines 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 Goldberg.

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 WFUMB2011 in Vienna.



"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 *UMB* 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 Ultrasound During 11-14 Week Scans (or Earlier in Pregnancy)" was subsequently adopted by the American Institute of Ultrasound in Medicine, the International Society of Ultrasound in Obstetrics and Gynecology, and is pending adoption by other societies throughout the world.

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)

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

information on safety and bioeffects (e.g. TI, exposure times, and how to reduce the output power).

6. When scanning maternal uterine arteries in the first trimester, there are unlikely to be any fetal safety implications as long as the embryo/fetus lies outside the Doppler ultrasound beam.

Approved January 27, 2011

WFUMB Policy on Live Scanning at Commercial Exhibitions

While WFUMB does not object to live scanning at WFUMB 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 technologists can be considered educational, if handled in an educational setting.

Approved September 4, 2010



Affiliate Highlights

AIUM—Membership has grown by more than 6.5 % over the past 12 months and is now at over 8,961 members as of June 30, 2011. AIUM's professional networking site, aiumcommunities.org, is home 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 Medical Education and Ultrasound in Global Health. AIUM maintains an active presence on Facebook@ with over 6,300 fans who receive regular AIUM posts in their newsfeed. Additional social presences are maintained on Twitter, RSNA's RadRounds, and YouTube.

AIUM'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 Carmine 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 special interest in ultrasound and its value in medical education...continued at www.wfumb.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 important number of attendees to these meetings. The WFUMB Latin American Education Project has been very active also, supporting and co-organizing scientific activities in Venezuela and Brazil.

We have organized courses that have been imparted in Bolivia, Paraguay, Panamá, Guatemala, 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 13th Congress of the World Federation for Ultrasound in Medicine and Biology (WFUMB) to take place in Vienna and also were the ideal scene for the promotion of the congress of FLAUS 2011 carried out in Asuncion, Paraguay in June 2011. This event had an attractive academic program, successful culmination, and an attendance of around 400 physicians from all over Latin America with 45 international lecturers who discussed during 3 days, important areas of Ultrasound...continued at www.wfumb.org.

AFSUMB—AFSUMB has 15 member societies of Bangladesh, Cambodia, China, Chinese Taipei, Hong Kong, India, Indonesia, Japan, Korea, Mongolia, Malaysia, Pakistan, Philippine, Singapore, and Thailand, and 16665 members in 2010. The 9th AFSUMB congress was held in New Delhi, India, on November 18-21, 2010 successfully. Excellent 4 day scientific programme was formulated, which were consisted workshops, lectures, symposia, free papers and so on. And the educational activities of 7th AFSUMB workshop was organized in Indonesia on 5-7 November 2009, and 8th AFSUMB workshop was in Ulaanbaator, Mongolia on 5-7 August 2010 in 183 participants. The 9th workshop will be held in Bali, Indonesia in 2011. The workshop will be held every year to diffuse the ultrasound 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 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 AFSUMB members; those are continued in JSUM, KSUM and CTSUM...continued at www.wfumb.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.efsumb.org is a good place to start for anyone unfamiliar with the changes afoot in EFSUMB. The statistics of the website viewing have been increasing dramatically and not just from our member countries but worldwide.

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 price. This book in its entirety will be found on the EFSUMB Educational Portal which has recently been launched on our website. The intention is to offer educational material to anyone with access to the internet. The successful Case of the Month, Guidelines, Recommendations, teaching videos, EUROSON School presentations, and more, can all be found here...continued at www.wfumb.org.

MASU—The WFUMB COE is an important means through which MASU operates to conduct ultrasound training courses for applicants from Africa, who are either sponsored by WFUMB or have individual private sponsorship. The COE is supported in its training activities by WFUMB 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 course (Degrees, Diploma and Certificate). Within the last two years, the COE has held 4 short refresher courses, and continues to conduct formal ultrasound courses at certificate, diploma and degree levels. Currently, there are up 150 students are enrolled for these formal ultrasound courses.

The COE holds a minimum of 2 refresher courses per year, 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, 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.

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.

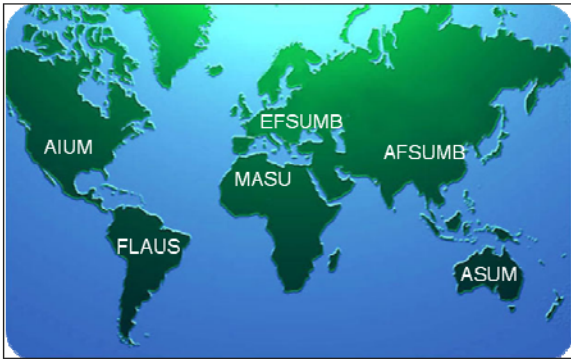
WFUMB's primary mission is to expand the opportunities for ultrasound practitioners throughout the world to participate in ongoing and newly developed educational programs. Through events such as WFUMB 2011, the WFUMB Council, in partnership with our member societies, is able to reach our collective goal of raising the level of patient care by raising the level of ultrasound 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

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

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



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.aium.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)
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.

14750 Sweitzer Lane, Suite 100
Laurel, MD 20707 USA
<http://www.wfumb.org>



WFUMB 2013

14th World Congress of Ultrasound in Medicine and Biology – WFUMB 2013
XVI Congress of the Latin American Federation of Ultrasound – FLAUS 2013
43rd Sao Paulo Radiological Meeting – JPR'2013

May 2 - 5, 2013

Transamerica Expo Center - Sao Paulo - Brazil



www.spr.org.br