

2016 Asia-Pacific International Symposium on EMC (APEMC), Shenzhen, China, May 18-21, 2016

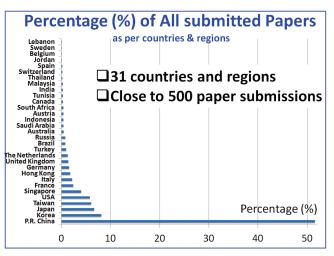
Reported by En-Xiao Liu and Lijun Jiang

Overview

The 7th Asia-Pacific International Symposium on Electromagnetic Compatibility & Signal Integrity and Technical Exhibition (2016 APEMC) was successfully held in Shenzhen, China, during May 18 to 21, 2016. Shenzhen was selected to host the 7th APEMC symposium because of its strategic location near Hong Kong, its pioneering status of being China's "Window to the World", its fabulous facilities and being home to world-class electronic industries and research centers. The APEMC symposium is an important forum for world-wide EMC communities with a primary focus in the Asia-Pacific region.

The 2016 APEMC was jointly organized and technically co-sponsored by Zhejiang University, IEEE EMC Society, South University of Science and Technology of China, Hebei University of Technology, National University of Defense Technology, CEMEE Lab China, Antenna and Microwave Lab China, and the China Electrotechnical Society.

The 2016 APEMC symposium received close to 500 paper submissions from 31 countries and regions. A total of 388 papers were accepted and presented at the conference. In addition to 16 regular technical sessions, it also included two keynote speeches, three plenary talks, one industry luncheon talk, 14 special sessions, eight workshops, eight tutorials, 19 invited papers, and one industry forum. Four embedded topical mini-symposiums covered hot EMC-related topics: Integrated Circuit (IC) EMC, Wireless Power Transfer Technologies, Smart Grid & Power Electronics EMC, and Biomedical Electromagnetics. 2016 APEMC covered a full scope of EMC from IC to system, from electronics to bioengineering, from measurements to modeling, from traditional topics to emerging technologies, from standards and regulations to effective writing of EMC papers. 2016 APEMC attracted 472 delegates, including 169 students, and 700 exhibition visitors.



Breakdown of all submitted papers according to countries/regions.



Professor Er-Ping Li, General Symposium Chair, delivered his opening address to the conference delegates at the opening ceremony of the 2016 APEMC.



Professor Lijun Jiang, TPC chair, gave his speech on behalf of the technical program committee.



Professor Shi-Yi Chen, President of South University of Science and Technology of China and Member of Chinese Academy of Sciences, declared the 2016 APEMC was officially "open".



Dr. Frank Leferink, Thales Group, the Netherlands, delivered his keynote speech at the opening ceremony on the morning of 19 May.



Professor Weng Cho Chew gave his plenary speech to a full house on the afternoon of 19 May.

Opening Ceremony and Keynote Speeches

Professor Er-Ping Li, General Chair of the 2016 APEMC, addressed the symposium participants at the Opening Ceremony in the morning of 19 May. Subsequently, Professor Lijun Jiang from the University of Hong Kong, Technical Program Chair of the 2016 APEMC symposium, gave his speech on behalf of the technical committee. The 2016 APEMC symposium was thereafter declared open by Professor Shi-Yi Chen, President of South University of Science and Technology of China, Member of Chinese Academy of Sciences. In his opening address, he highly praised all EMC researchers for keeping abreast of emerging technologies, such as Information and Communication Technology (ICT): the Internet, the Mobile Internet, the Internet-of-Things (IoT), Artificial Intelligence, and Robotics. Two eminent scientists delivered their keynote speeches at the opening ceremony: Dr. Frank Leferink, Thales Group, the Netherlands, gave a speech titled "Interfered Technology: A Radiant Future"; Dr. Li Li, Principal Scientist, from Huawei Technologies Co. Ltd., Shenzhen, gave a speech titled "The Key Technologies and the Challenges in the Development of 5G Communication."

Plenary Talks and Technical Sessions

Three eminent scientists also delivered plenary speeches in the afternoon of 19 May and morning of 20 May during the technical sessions. They included Professor Weng Cho Chew from the Uni-



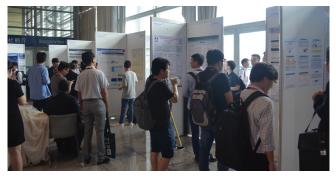
Professor Tzong-Lin Wu (left) and Professor Jun Fan (right) gave their plenary presentations on 20 May.



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Conference delegates listening to a talk during a technical session.



Participants at a poster session.

versity of Illinois at Urbana-Champaign; Professor Tzong-Lin Wu from the National Taiwan University; and Professor Jun Fan, from the Missouri University of Science and Technology.

Five parallel sessions were conducted each day from 18 to 21 May 2016. The first day of the conference was dominated by workshops and tutorials with a few technical paper sessions. The remaining three days were mainly occupied by technical paper sessions mixed with workshops, tutorials, and topical symposiums.



The Q & A session was still fresh with vigor at a technical session on Saturday, the last day of the symposium.

Banquet Dinner and Award Presentations

The highlight among all 2016 APEMC social events was the banquet dinner and award presentations, held in the ballroom of the Marco Polo Hotel. Following Professor Er-Ping Li's toast, an exciting FOU drum beating performance in colorful ancient Chinese costumes was performed. FOU, a special type of ancient drum, was a percussion instrument used in China about 2,700 years ago. FOU was usually made of clay or copper. If the conference dele-



Conference delegates enjoyed the Chinese FOU drum beating performance held during the symposium banquet.



APEMC Young Scientist Awardees poised for a group photo with Prof. Er-Ping Li (far left) and Dr. Perry Wilson (far right).

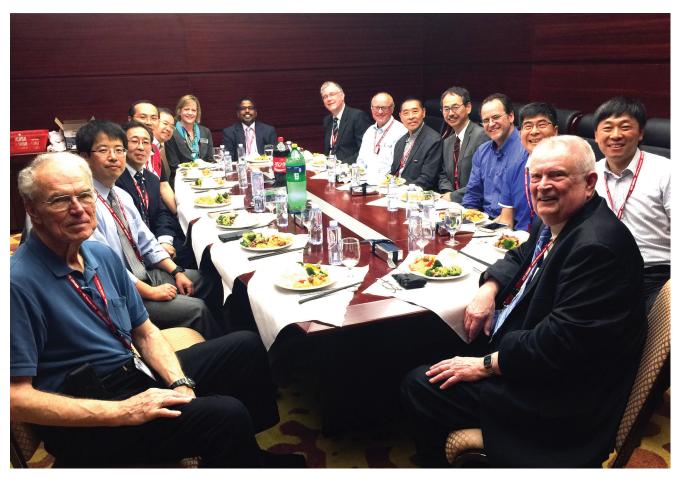


The 2016 APEMC organizing committee took a group photo at the banquet dinner on 20 May.

gates lived 2,700 years ago, they would have used small FOU as the containers to hold wine at the banquet dinner. This same performance was conducted during the opening ceremony of the 2008 Beijing Olympics.

On one hand, the 2016 APEMC symposium cannot succeed comfortably without the generous support by many sponsors, including Compliance Direction System Inc, Huawei Tech Ltd, CST, Keysight, AR RF/Microwave Instrumentation and 3ctest. On the other hand, a wonderful symposium will never be complete without awards. Prof. Wen-Yan Yin, Awards Chair, discussed how the best papers were shortlisted and selected. Professor Marcello D'Amore, University of Rome – La Sapienza, gave out the three best symposium paper awards. As always, every APEMC symposium gives out best student paper awards. This year's best student paper awards were generously supported by Huawei. Mr. Ronghua Zhong, Director of Huawei Technologies, gave out three best student paper awards.

Among all the APEMC delegates, there is one group of people who are holding the future of EMC - the young researchers. For the first time in the short history of APEMC, this year's APEMC symposium created the Young Scientist Awards to recognize outstanding young EMC researchers. Dr. Perry Wilson of the National Institute of Science and Technology and Prof. Er-Ping Li presented the awards to eight young scientists aged 38 years and below. They



Attendees at the EMC Society Board hosted luncheon included (clockwise from bottom left) John Norgard (EMCS), Lijun Jiang (University of Hong Kong), Er-Ping Li (APEMC), Enxiao Liu (A*STAR, Singapore), Joungho Kim (KAIST, Korea), Janet O'Neil (EMCS) Vignesh Rajamani (EMCS), Frank Leferink (Netherlands) Perry Wilson (EMCS), Peter Leung (City University of Hong Kong), Osami Wada (Kyoto University, Japan), Mike Violette (EMCS), Tzong-Lin Wu (National Taiwan University), Jinliang He (Tsinghua University), and Don Heirman (EMCS).

included Dr. Qi Wu, Dr. Flavia Grassi, Liang Zhou, Dr. Henglin Chen, Dr. Zhanqing Yu, Ms. Haiyan Xie, Dr. Yuichi Hayashi, and Chung-Hao Tsai.

All successful symposiums have one thing in common - an excellent organising team. Prof. Er-Ping Li first presented a token of appreciation to last year's APEMC Symposium Chair, Prof. Tzong-Lin Wu, National Taiwan University; then he proceeded to present tokens of appreciation to the 2016 APEMC organizing team.

EMC Society Board Hosted Luncheon

On 18 May, the IEEE EMC Society Board of Directors hosted a luncheon meeting. Don Heirman was delegated by Frank Sabath, president of the IEEE EMC Society, to head the IEEE EMC Board delegation to further engage with APEMC organizers. Through the luncheon meeting, EMC Society delegates and Asia Pacific EMC leaders got to know each better. The future plans of APEMC were discussed during the meeting, and the relationship between APEMC and other regional or national EMC symposiums was also discussed constructively. Attendees were thankful for the small gifts from the IEEE EMC Society.

Conclusion

The 2016 APEMC symposium concluded on the late afternoon of Saturday, 21 May. The organizing committee sincerely thanks all the participants, speakers, authors, paper reviewers, sponsors, exhibitors, technical and advisory committee members and volunteers, for making 2016 APEMC a big success!

See you all at the 2017 APEMC in Seoul, Korea, and 2018 joint IEEE EMC and APEMC in Singapore! **EMC**