



2012 ASIA-PACIFIC EMC WEEK

May 21- 24, 2012, Singapore
www.apemc2012.org



2nd Call For Papers

2012 Asia-Pacific International Symposium on Electromagnetic Compatibility in Singapore

The 2012 Asia-Pacific International EMC Symposium and Exhibition will return to its founding place **Singapore**, from May 21 to 24, 2012. It aims to respond to the needs and aspirations of a rising EMC community in the region, to promote excellence among its members, and to foster links to the international EMC community. Since its inception in 2006, and with regular IEEE co-sponsorship, APEMC has become a much anticipated annual event that moves among the different countries of the region and features a rich industrial exhibition to address the needs of industry.

So come and join the EMC-Asia-Pacific Week in Singapore in 2012! We will offer a rich scientific program of highest quality with invited speakers from all over the world and provide a broad forum of exchange for academia and industry alike.

The symposium will cover the entire scope of electromagnetic compatibility and include emerging technologies. Prospective authors are invited to submit original papers on their latest research results. We also solicit proposals for topical meetings, the industrial forum, workshops and tutorials.

Important Dates

Preliminary paper submissions
(3 or 4 pages in PDF format only)

Extended to December 26, 2011

Notification of acceptance

February 5, 2012

Final paper submission through the portal
www.apemc2012.org

March 15, 2012

All submissions must be electronic. Font embedding must be IEEE Xplore compatible. No hardcopies shall be accepted. Details are given on the symposium website: www.apemc2012.org

General Chair

Wolfgang J. R. HOEFER, Singapore
Email: w.hoefer@ieee.org

Technical Program

Committee Chairs

Er-Ping LI, Singapore
Email: erpingli@ieee.org

James DREWNIAK, USA
Email: drewniak@mst.edu

Program Chairs

Enxiao LIU
Email: liuex@ieee.org

Xingchang WEI
Email: weixc@ieee.org

Publication Chair

Xian-ke GAO
Email: gaokx@ieee.org

Publicity Chair

Eng Kee CHUA
Email: chuaek@ieee.org

Exhibition Chair

Mark TAN
Email: tanyc@ieee.org

Symposium Secretariat

Miss Ellen HENG
CMA International Consultants Pte Ltd
1 Liang Seah St
#02-12 Liang Seah Place
Singapore 189022
Tel: +65-6336 2328
Email: emcsingapore@cma.sg



Symposium Topics

EMC Management and Standards

EMC Specifications & Standards; EMC Control and Management; Laboratory Accreditation; EMC Personnel Certification; National and Regional EMC Legislation; Mutual Recognition Agreements; EMC Education

EMC Measurements and Environment

Test Instrumentation; Time-Domain Measurements; Test Procedures; Emission and Immunity Testing; Test Facilities (reverberation and anechoic chambers etc), Confidence and Reproducibility; EM Environment

Lightning

Lightning Parameters and Models; Pulse Models; Coupling of Lightning EMF to Lines; Effects in the Atmosphere; Protection and Standards; Intentional EM Interference (IEMI)

High Power Electromagnetics

NEMP, HPM, EMP; High Power Protection; Intentional EM Interference (IEMI), High Voltage Power Grid EMC

Low Frequency EMC (Renewal Energy and Smart Power Grid EMC)

Smart Grid EMC, Power Quality, Solar Cell System EMC, Wind Energy System EMC, Wireless Power Transmission; Power Delivery EMC; Power Electronics EMI

System-Level EMC and Protection

Electrically Large and Complex Systems including Transmission Lines; Shielding, Coupling and Grounding; EMC Product Design; EMC Topologies; System Installation Aspects; EMC Quality Assurance; EMC Cost Factors; Neural Networks and EMC; Visualization for EMC; Virtual EMC-Environment; PCB EMC

Electric Vehicle, Automotive, Railway and Naval EMC

Electric Vehicle EMC, Automotive Components, Car Controllers; Radar Detection System EMC; Automotive System EMC; High Speed Rail EMC; High Speed Rail Communication EMC; Metropolitan Transit System EMC

EMC in Space

Space Electromagnetic Environment; Space Vehicles (Satellites, space crafts, space sensors, launch vehicles etc) EMC Issues; Avionics EMI

IC and Semiconductor EMC

ESD for Chips; Measurement of IC EMC; Modeling of IC EMC; EMC in System-on-Chip; EDA tools for IC EMC; RFIC EMC; RFID EMC; Smart Power IC EMC; Harsh EM Environment Effects on ICs

Signal Integrity and Power Integrity

Simulation Techniques; Measurement Techniques; Interconnects; Package Integration; PCB; System-in-Package; Chip-package and PCB Co-design and Simulation

Wireless Communication EMC

Cellular Devices & Systems; Internet Systems; Sub-station EMC; UWB, Wireless LAN EMC, Wireless Regulations

Computational Electromagnetics

Numerical Techniques in EMC Problems; Fast Methods for Large/Complex Systems; Hybrid Methods; Validation and Benchmarking; Model Order Reduction Techniques; Advances in EM-based Electronic Design Automation Tools; Statistical Analysis

Bio-Medical EMC

EM Interaction with Biological Systems at any Frequency; Exposure Studies; Medical Applications in Diagnosis and Therapy; Cellular Phone Dosimetry

Nanotechnology in EMC

Nanotube Interconnects; Nanomaterials for EMC; Metamaterials; PBG/EBG for EMI; Nanoelectronic EMC

(Special Topic) TSV for 3D-IC and 3D System Integration

TSV Induced Crosstalk, Coupling; TSV Induced EMI; Multi-physics Modeling; TSV Interaction with Active Semiconductor Devices; Inter-layer and Inter-block RF Interference; Heterogeneous Integration EMC Issues

Antenna & Propagation

Topical Meetings on Power System & Smart Grid EMC

Topical Meeting on Electromagnetic Compatibility of IC and Systems-on-Chip

Paper Submission

Authors are requested to submit a preliminary paper up to 4 pages in length, including title, author's affiliation, abstract, figures and references.

The submission must be in electronic format (PDF). A Word template is available on the symposium website. No hardcopies will be accepted.

Accepted Papers

Notifications of paper acceptance and the necessary information to electronically submit the final version of the paper will be sent to the authors. Final papers shall be **four pages** long, including figures, tables and references.

Student Paper Prize

Papers considered for the Student Paper Prize are expected to be predominantly the work of the student. Papers co-authored by a student and his/her advisor are eligible, provided the student is the principal author and also the presenter. Please indicate in your electronic submission if you want to be considered for the Student Paper Prize.

Exhibition

The Technical Exhibition has always been a major highlight of the Asia-Pacific Symposium on Electromagnetic Compatibility (APEMC). The exhibition offers an excellent opportunity for all segments of the EMC and Microwave community to meet, providing an international gathering for everyone involved in technologies associated with RF, Microwave, EMC Instrumentation and analysis software, etc.

Exhibition contact:

Miss Ellen HENG
CMA International Consultants Pte Ltd
1 Liang Seah St
#02-12 Liang Seah Place
Singapore 189022
Tel: +65-6336 2328, Fax: +65-6336 2583
Email: emcsingapore@cma.sg