EMC EUROPE 2012

International Symposium on Electromagnetic Compatibility

September 17-21, 2012, Rome, Italy

The EMC Week in Rome

The Symposium

EMC research and conferences in Europe have a long tradition. From the series of independent EMC Symposia based in Wroclaw, Zurich and Rome running every second year, has emerged EMC Europe which is organised every year in a European city to provide an international forum for the exchange of technical information on EMC. The 2012 EMC Europe Symposium will be held at the Engineering Faculty of Sapienza University of Rome, in September 17-21, 2012. We wish to invite and encourage all those working in EMC to participate in this prestigious event. The Symposium will cover the entire scope of electromagnetic compatibility including emerging technologies.

Marcello D'Amore, *Chairman*
Mauro Feliziani, *Vice-Chairman*

The 16th-century cloister, Sapienza University of Rome

The Venue, where it all began

The Engineering Faculty of Sapienza University of Rome, where the first edition of the EMC Roma Symposium was held in 1994, is located in the centre of Rome, very close to the Coliseum. The middle of September is a very popular season in Rome, and early hotel reservations are recommended.

Contacts & Information

info@emceurope2012.it
http://www.emceurope2012.it

Technical Program

- **5-day presentations**
- **353 submitted papers from 45 countries**
- **292 accepted papers**
- **6 Special Sessions**
- **32 Oral Sessions**
- **3 Poster Sessions**
- **11 Workshops**
- **6 Tutorials**
- **3 Short Courses**
- **3-day Exhibits**

Exhibitors (provisional list)

- **AFJ Instruments**
- **Albatross Projects**
- **AR Europe**
- **Asea Sistemi**
- **Cedrat**
- **Comtest Engineering**
- **CST**
- **EMCoS**
- **E&C Anechoic Chamber**
- **ETS Lindgren**
- **Feko**
- **MAC**
- **Narda Safety Test Solutions**
- **Rohde & Schwarz**
- **Siepel**
- **Soliani EMC**
- **Technopartner**
- **Temas Engineering**
- **Volta Spa**

Social Program

- **Welcome Cocktail (Sep. 18) at Brancaccio Palace**
- **Gala Dinner (Sep. 19) at Excelsior Hotel**
- **Tours**

Gala Dinner at Excelsior Hotel, Rome

International Steering Committee

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PRELIMINARY TECHNICAL PROGRAM OVERVIEW

ORAL AND POSTER SESSIONS						
	9:00 - 9.15	9:15 - 10:45	10:45-11:15	11:15 - 13:00	13:00 - 15:00	15:00 - 17:00
TUE. SEP. 18	Opening	EMC Trend in Asia (Invited)	*Break*	Reverberation Chambers	*Poster Sessions*	EMC Testing
				Modelling of Radiated Emission		HIRF SE (SS)
		EMC Industrial Forum (Invited)		Power Electronics		Power Systems
				Human Exposure to LF Fields		Wireless Communication
WED. SEP. 19	Radiated Field Measurements		*Break*	PCB I	*Poster Sessions*	Near Field Measurements
	Automotive			Aerospace		Shielding
	Lightning & Grounding			ESD/EMP/HPEM		TLs & Waveguides
	RF Biological Effects (SS)			LF Biological Effects (SS)		Railway (SS)
THU. SEP. 20	Antennas & Propagation		*Break*	Absorbers & Metamaterials	*Poster Sessions*	Immunity & Emission
	TL Coupling			PCB II		PCB III
	Power Electronics (SS)			Smart Grids (SS)		PLC
	Micro/Nano Materials for EMC			Surveillance & Emergency Systems		Human Exposure to RF Fields

Tutorials-Workshops-Short Courses (Monday Sep. 17 / Friday Sep. 21)

TU1 - Scalable Models for Efficient Design in EMC and SI Applications, Organizer: G. Antonini, *University of L'Aquila, Italy*

TU2 - High Speed Printed Circuit Board Design, Organizer: F.J.K. Buesink, *University of Twente, NL*

TU3 - EMC Aspects of Lightning, Organizer: F. Rachidi, *EPFL, Switzerland*

TU4 - Electromagnetic Compatibility Issues in Power Electronics: Origin, Solutions, Rules, Organizer: G. Spiazzi, *University of Padova, Italy,* A. Zuccato, *CREIVen , Italy*

TU5 - Numerical Modeling of Transient Immunitytest for EMI Compliance,Organizers: S. Caniggia, *EMC Consultant, Italy,* F. Maradei, *Sapienza University of Rome, Italy*

TU6 - Enhancing EMC measurement accuracy and speed, Organizer: C. Carobbi, *Università di Firenze, Firenze, Italy*

WS1 - Test of Rolling Stock Electromagnetic Compatibility for Cross Domain Interoperability, Organizer: R. Armstrong, *York EMC Services Ltd, York, UK*

WS2 - Electromagnetic Shielding Standardization – Present and Future, Organizers: A. Duffy, *De Montfort University, UK* , A.Marvin, *University of York, UK*

WS3 - EMC and Medical Devices, Organizer: Daniel D. Hoolihan, *Hoolihan EMC Consulting, USA*

WS4 - Practical Measurements in Aerospace EMC, Organizer: B. Scully, *NASA, USA*

WS5 - Signal/Power Integrity Design on Chip, PKG, and PCB, Organizers: Tzong-Lin Wu, *National Taiwan University, Taiwan,* A. Orlandi, *Univ. of L'Aquila, Italy*

WS6 - EMC in Wireless Security and Safety Applications, Organizers P. Stenumgaard, K. Wiklundh, *FOI, Sweden*

WS7 - Automotive EMC, Organizer: M. Klingler, *PSA, France*

WS8 - Comparability of Radiated Emission and Immunity Tests between Different Test Environments, Organizer: M.Magdowski, *Otto-von-Guericke University, Magdeburg, Germany*

WS9 – Efficient Testing Using a Reverberation Chamber, Organizers: M. Wiles and V. Keyser, *ETS-Lindgren Ltd*

WS10 - Hybrid CEM Methods for EMC/EMI, Organizers: Wen-Yan Yin, *Zhejiang University, Hangzhou, China*

WS11 -Detection and Identification of Jammer and other interference to the GNSS, Organizer: D. Paskovich, *Communications Research Centre in Ottawa, Canada*

SC1 – Young Scientist Program, Organizer: A. Marvin, *University of York, UK*

SC2 – Near Field Probes: Useful Tools for Electronic Engineers, Organizer: A. Mediano, *University of Zaragoza, Spain*

SC3 – Nano-EMC, Organizer: M. S. Sarto, *Sapienza University of Rome, Italy*

TV1 - Technical Visit to Sapienza Nanotechnology & Nanoscience Lab (SNN-L)