

Design Challenges & State of the Art of 3D EM Field Simulation

This workshop is designed to give antenna, EMC, microwave, RF, and SI engineers an insight into the latest EM simulation technology for analysing complex wireless, EMC/EMI, microwave, RF, and SI applications. Workshop attendees will get the chance to see how modern simulation technology can simulate and optimize all electromagnetic issues associated with increasingly complex 3D designs including antennas, PCBs, cables, and shielding performance of metallic enclosures.

Location: **Qatar University**

Date: **Monday, 12th November 2012**

Time: **11:00 AM - 2:00 PM**

Who should attend?

All Professors, engineers / researchers and management who use or could benefit from the latest electromagnetic simulation tools. More and more applications require a reliable simulation tool to facilitate a rapid and low risk design process. CST's "Complete Technology" and advanced workflow management make it a key design tool in many application areas including: antennas, signal integrity, power integrity, interconnect, PCBs/packages, cables, EMC and EMI.

AGENDA

Time	Duration	Description
11:00 AM	10	QU: Welcome, Introduction and EM Simulation Needs
11:10 AM	15	CST Company Introduction
11:25 AM	20	CST Studio Suite 2013: Complete Technology for 3D Electromagnetic Simulation
11:45 AM	20	Antenna Simulation features in CST Microwave Studio - Online Demo
12:05 PM	10	Coffee Break
12:15 PM	30	SI/PI and EMC/EMI Application Notes using CST STUDIO SUITE tools: CST MICROWAVE STUDIO, CST MICROSTRIPES, CST CABLE STUDIO, and CST PCB STUDIO.
12:45 PM	15	Human Body Models and CST Voxel for Biomedical Applications
01:00 PM	20	Antenna Measurement Systems (MVG)
01:20 PM	25	Current Research Activities (UWB MIMO, Cognitive Radio, Interference Alignment, Imaging, RFID,)
01:45 PM	15	Discussion and Closing

Presenters:

- **Dr.-Ing. Marko Walter**
CST-AG Sales Director, MEA, SE, NA
- **Dr.-Ing Mohamed El-Hadidy**
CST-Middle East General Manager
- **Dipl.-Ing Tobias Glahn**
CST-AG Senior Application Engineer

Organizer:

- **Prof. Mohieddine Benammar**
Head of Department & RasGas Chair in Industrial Electronics
Dept. of Electrical Engineering, College of Engineering,
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