Automobile manufacturing, which is a rapid growing industry in both overseas and Mainland China, is having revolutionary changes in recent months in terms of design and also strategy in development of future cars. In order to explore this emerging market in Hong Kong, Automotive Parts and Accessory Systems (APAS) and Advanced Manufacturing Technologies (AMTs) are selected key areas by the Innovation and Technology Commission of the Government of HKSAR.

Currently suppliers and manufacturers of the automotive industry need to demonstrate their product, either as a whole vehicle, or individual system, or an electronic sub assembly, is fit for their purpose, and is also safe as according to Automotive EMC Directive, 2004/104/EC. Vehicles and Electronic Sub-Assembly (ESA) are also required to satisfy various specific EMC tests and requirements as stated in both international and some in-house standards. In this seminar, expertise from the testing equipment industry will give an explanatory talk and give a general picture of EMC standards in Automotive, as well as some particular key issues in the in-house EMC standards from automotive manufacturer.

A seminar has been prepared for participants working in electronics who would like to know more about how their daily work is related to the automobiles industry.

**Venue:** LT-4, Academic Building, City University of Hong Kong  
**Date & Time:** 22 Aug 2009 (Saturday), 9:15am – 1:00pm  
**Max. Participants:** 100, **pre-registration is required**

*Interesting parties, please send your name, company name, contact number, email, and IEEE membership no. (if applicable) to our secretary, Dr. Brian Chan (Email: brian_chan@ieee.org) to reserve a seat.*

### Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am – 9:15am</td>
<td>Registration</td>
</tr>
</tbody>
</table>
| 9:15am – 10:45am | Test of vehicles and ESA’s according to the latest EMC standards  
                   *by Pay Wee Chong, Rohde & Schwarz* |
| 10:45am – 11:30am | Automotive Testing Equipment  
                   *(Coffees and Refreshments will be served)* |
| 11:30am – 1:00pm | Conducted Immunity testing on automotive electronics: From ISO 7637 to Introduction of Manufacturer standards  
                   *by Jeffrey Tsang (曾沛纲), Teseq Company Limited* |
| 1:00pm – 1:15pm | ~ Q & A ~                                                             |

*For details of the presentations, please refer to page (2) of the leaflet, or visit our chapter’s website (http://www.ee.cityu.edu.hk/~emc/)*

**Sponsored and jointly organized by**

IEEE EMC Hong Kong Chapter  
Presents a half day Technical Seminar on  
**Automotive EMC**

Enquiries: Please contact the EMC Chapter Secretary, Dr Brian Chan, via e-mail: brian_chan@ieee.org
Details of the Presentations

Presentation 1

Title: Test of vehicles and ESA’s according to the latest EMC standards

Abstract: This presentation is a comparison of the different standards and requirements. Based on the comparison, the physical feasibility of the available solutions is analyzed as well as method introduced to improve the measurements

Name of Speaker: Pay Wee Chong, Rohde & Schwarz

Presentation 2

Title: Conducted Immunity testing on automotive electronics: From ISO 7637 to Introduction of Manufacturer standards

Abstract: Conducted Immunity tests are tough and time consuming tests in automotive electronics world because that involves transient and voltage fluctuation testing. The intentional EMC standard ISO7637 has been adopted by many automotive electronics manufacturers around the world. To vehicle manufacturers the ISO standards are not good enough to simulate the real world situations. Due to the different characteristics of electronics design in different vehicle manufacturers, each vehicle manufactures develops more severe EMC standards for all type of automotive electronics that must be complied with. This presentation briefly goes through the transient immunity tests described in few vehicle manufacturer standards and compares with ISO7636.

Name of Speaker: Jeffrey Tsang, Teseq Company Limited

Biography: Jeffrey was graduated in University of New South Wales Electrical Engineering. He has 14 years experiences in Test and Measurement industry. Currently he is the assistant general manager of Teseq Company Limited and focusing in automotive EMC testing.