

### **Our Expert Services:**

EES is specialized in Electromagnetic Interference (EMI) Control of all Electronics from printed circuit boards (PCB) via equipments and all the way to racks, cubicles and complete systems or large installations. This includes emissions and immunity with conducted and radiated disturbance effects, both in frequency (DC to GHz) and time domain (Pico-seconds to minutes).

Electromagnetic Compatibility (EMC) in modern microelectronics ([http://www.iec.ch/zone/emc/emc\\_entry.htm](http://www.iec.ch/zone/emc/emc_entry.htm)) is increasingly becoming globally important ([over 200 documented EMC incidents](#)) to product designers and regulators because of the proliferation, integration and miniaturization of chips.

### **Consulting**

- Teaching in-house and public [EMI Control and conducting EMC Seminars](#) around the world.
- Consultancy with Design/Test Support for EMC in the domains of commercial, industrial, telecommunication, radio/wireless, automotive, medical, avionics and military applications. We generate Test Specification and Test Plans and identify suitable Test Labs
- Expertise in over 1000 international [Technical Norms, Standards and Regulations](#)
- Mandates for technical standardization committee representation in EMC, EMP, Telecom and Radio
- Marketing support for worldwide Product Approvals
- Extensive [R & D](#) in Electromagnetics and High Frequency Metrology
- Technical Studies regarding feasibility, design, operation and economic viability of complete EMC Test Centers, Absorber Chambers and Test Laboratories. We also do contracted R&D
- Assist in negotiating complete EMC Test Center Facility contracts with potential bidders
- We assist Certification Bodies and Test Labs' [Accreditation Preparation Support](#) with Internal Audits, QM-Systems Evaluation, Personnel Lab Training, Calibration Strategies, Measurement Uncertainties Analysis. Both Consulting and Assessments are independent functional areas

### **Assessments**

- Providing expertise as external [Technical / Quality Management Assessor](#) for accreditation bodies in the field of test laboratory and certification/inspection body.
- These assignments are normally subcontracted to us by the relevant national accreditation organizations. Dr. Hansen is an EU recognized assessor for the EMC, Telecom and wireless labs. Areas of specialisation are automotive [AEMCLRP, Blue-Tooth-BT](#) (scroll to EA page 4). In the area of governmental accreditation and nomination support, technical assessments for notified/competent body status ( EMC/RTTE EU directives) are provided. This also applies to the EU-Mutual Recognition Agreements (MRA) with non EU member states

regarding conformity assessment and telecommunication certification bodies (CAB, TCB, FCB)

**Legal Support as a technical Expert**

- Eyewitness Testing, Compliance Analysis and Technical Expertise supporting Legal Systems

**Corporate Management + Marketing Consulting**

- [Analysis](#), implementation of High Tech Strategies, innovations and expanding into New Markets are some of the highlights of this service.