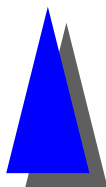
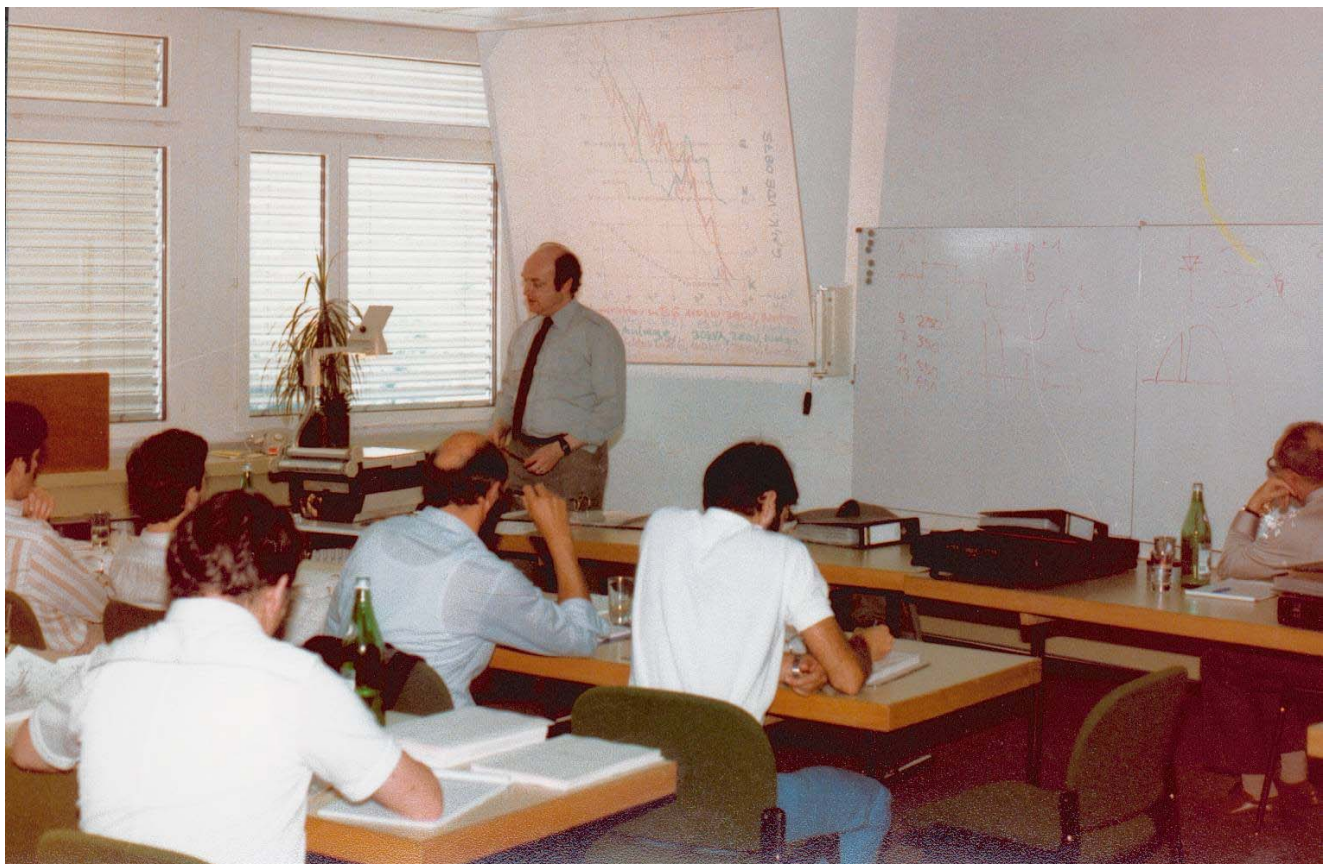


**E**LECTRO **M**MAGNETIC **C**OMPATIBILITY **C**ONSULTING & **T**ESTING  
**C**ALIBRATION, **C**ERTIFICATION, **C**OMPONENTS, **S**EMINARS

# **Public HIRF & Lightning Seminar in English language 2009-09-22 to 2009-09-24**



## **S E M I N A R   P R O G R A M**

**11.03.01E2**

### **HIRF/ HERF/ Lightning – High Intensity/ High Energy Radiated Fields & Lightning Electromagnetic Effects (EME) in aircraft**

Three Days Seminar

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#### **Day 1 HIRF/ HERF Approach to Compliance**

Physical Phenomena  
Certification regulations and standards  
Associated Test Methods and procedures for aircraft, systems and equipment  
Test setups  
Test and certification planning  
Real world issues  
Questions and answers  
Visit of EMC labs

#### **Day 2 Design rules to meet HIRF/ HERF requirements**

Installation  
Layout  
Zoning Concepts  
Shielding and Filtering  
Protection devices  
Questions and answers

#### **Day 3 Lightning Protection of Aircraft and Avionics**

Natural Lightning  
Lightning Interaction with Aircraft  
Direct Lightning Effects on Aircraft  
Lightning Interaction with Electrical and Avionics Systems  
Airworthiness Regulations  
Lightning Test Specifications and Standards  
Basic Steps in Lightning Protection Design and Certification  
Protection Design  
Preparation of Test Plans  
Test Methods for Indirect Lightning Effects  
Test Methods for Direct Effects on Structures  
Questions and answers