



## TECHNICAL TALK

# Lightning Power Surge and Data Line Solutions and Applications

By:

**Jim Harrison**

**President of Power Quality International (PQI), Vice President of Emerson Network Power (USA).**

**Date: 7<sup>th</sup> July 2008**

**Time: 10.00am-11.00am**

**Venue: Room BA-4-051, Level 4, Management Building, UNITEN**

## Synopsis

- IEEE Std 1100 Emerald book
- ANSI/IEEE C62.41/ C62.45
- IEC 61024 /IEC 61312/IEC 61643.1
- Overvoltage Protection
- Transient Voltage Surge Suppression(TVSS) Design
- High surge current Testing and the failure mode
- Power surge protection product for Main Switchboard, Sub-switchboard and Distribution board
- Spike filter products for Sensitive Electronic Equipment
- Design of Active Tracking Filter in electrical System
- Use of Active tracking Filter to get better earthing quality
- Data line, telephone line and co-axial line protection products and applications
- Telecommunication surge protection product and applications
- Hybrid Surge protection system

## Brief Biography of Presenter

Jim Harrison (USA) is currently a consultant and President of Power Quality International (PQI) and Vice President of International for Emerson Network Power (USA). He is recognized authority on Power Quality problems and solutions, having presented to, or consulted for, many International companies such as: Telstra Australia, Telemig and Globo TV Brazil , Walmart stores Intl. Mexico, SBE Ireland, DHL Malaysia and many others. His experience includes working as a worldwide power conditioning consultant and trouble shooter. During his twenty four years experience in power conditioning, Harrison has successfully trained thousands of engineers,

technicians and end users concerning power problems and solutions. Harrison holds various technical degrees, has conducted many IEE/IEEE sponsored training symposiums and has authored 12 technical papers concerning power quality problems and solutions. He is a contributor to A Power Quality Strategy, Indian Senario, a text book used by the Indian government and the IEEE Emerald book. He is a former member of National Electrical Manufactures Association (NEMA 5VS), National Fire Protection Association (NFPA) and a contributor to the Institute of Electrical and Electronics Engineers (IEEE) Working Groups 3.6.2, 3.6.3, and 3.6.6 which is currently revising ANSI/IEEE Surge Standards. Harrison is the copyright holder for the IEEE video Transient Voltage Surge Suppression available through IEEE's education department -ISBN # 0-7803-0316-4 Product # HV0237-8.