



IET / EI

JOINT EVENING LECTURE



Radio Frequency Interference - What You Should Know

Presented by

Mr. Tom O'Brien, Managing Director, Electromagnetic Technologies Ltd

Tom qualified from UCC in 1971 with BE in Electronics. He joined British PO and returned to Ireland to RTE to install and commission TV2. Tom joined Apple in 1981 and introduced EMC shielding and measurements to the Cork plant. He set up the Apple EMC test site in Cork and represented Apple on the Irish EMC standards committee. After 15 years Tom left Apple for a brief sojourn in high volume manufacturing but returned to EMC with PEI in Limerick. In 2001 Tom set up ElectroMagnetic Technologies, an RF test laboratory and consultancy, and he has continued building the business ever since.

This presentation will address many common questions in relation to Radio Frequency Interference such as:

- Why does one piece of equipment interfere with another?
- Why do digital signal signals give more problems?
- What are the effects of higher and higher operating speeds?
- Are mobile phones slowly killing us?
- How do wind farms interfere with other signals?
- What about microwave ovens?
- What tests are carried out on equipment before it is put on the market i.e. CE mark testing?
- What are the “nasties” that we receive along with mains electricity?
- What is PLC?

The presentation will also look at resonance and how that effects emissions and how some good designs can reduce signals. Examples of interference and how it affected communities until cured.

There will also be practical demonstrations of:

- the difference between sine wave and digital wave;
- the frequency spectrum and where these interfering signals occur.

This lecture is hosted jointly by The Institution of Engineering and Technology (Ireland Network) and Engineers Ireland (Cork Region).

Date:	Tuesday 19th February, 2008
Time:	6.00 p.m. for 6.30 (Light refreshments served at 6.00 p.m.)
Venue:	Cork Institution of Technology
Room:	B263 (School of Electrical and Electronic Engineering)

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