IEEE Ottawa Section

The IEEE Ottawa Section, IEEE Reliability Society & Power Electronics Society Ottawa Joint Chapter (R/PEL), Power and Energy Society Ottawa Chapter (PES), Communications Society, Broadcast Technology Society, and Consumer Electronics Society Ottawa Joint Chapter (ComSoc/BTS/CESoc), Computer Society Ottawa Chapter (CS), and IEEE Algonquin College Student Branch are inviting all interested IEEE members, academics, engineers, technologists, and students to the seminar on:

Mechanical Reliability in Electronics: A lifetime of strange failures and conditions

by

D Hugh M Reekie, P.Eng., IEEE SM

DATE: Thursday, March 20, 2014.
TIME: 6:10 pm – 7:50 pm.
Refreshments and Networking: 6:10 pm – 6:40 pm.
Seminar: 6:40 pm – 7:40 pm.
Q & A: 7:40 pm – 7:50 pm.
PLACE: Algonquin College, 1385 Woodroffe Ave., Advanced Technology Building (T), Optophotonics Lab (Room T129).
PARKING: No fee at the parking lots 8 and 9 at the time of seminar. Please respect restricted areas.
ADMISSION: ***Free***. Registration required. To ensure a seat, please register by e-mail contacting: Raed Abdullah, or Wahab Almuhtadi.

Abstract

In his presentation Hugh describes a number of mechanically-related faults or conditions that affect electrical performance. In addition to standard electronic problems, Hugh will mention a number of specific instances of performance deterioration that can be directly related to the mechanical situation; some of the effects were from very strange mechanisms, requiring a strong knowledge of manufacturing processes to understand and diagnose. In conclusion, Hugh will suggest some "Field Philosophies" for the Project Engineer.

Speaker's Bio

Hugh has been an electronics engineer all his career – but he nearly switched to mechanical engineering at college so perhaps he is one of the first mechatronics Engineers! After graduation in 1964 he specialized in Solid state microwave, building LNAs, varactor multipliers and "solid state klystrons"- and finally IMPATT oscillators after coming to Canada from the UK in 1969. After a stint building Anik A and C series spacecraft components, (also at Northern Telecom) he settled down with field trips all over Canada, upgrading Earth Stations for Telesat Canada. After building the world's first fully-integrated satellite news-gathering vehicle in the mid 1980s, he moved to the Communications Research Centre as an Applications Engineer on the MSAT program; there he assisted with satellite conference management, including the International IEEE VNIS 93, Ottawa. He started up the MTT and VTS Chapters in Ottawa; presently he chairs the AESS and VTS Chapters, and remains very involved with IET-UK (formerly IEE) local activities.