

Paul Gale

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A material scientist with thirty years experience of materials used in the production of energy and communications cables and their accessories. Skilled writer of raw material specifications, procedural and similar formal documents. Computer literate, especially in the area of database applications.

Personal Information

Marital status: Single
Nationality: British
Date of birth: 01 August 1945

Summary of education and qualifications

Educated to O-level standard, then by day-release obtained ONC Science and HNC Chemistry (both at Southampton Technical College)

Graduateship of Royal Institute of Chemistry (Portsmouth Polytechnic)

Career Summary

1969 – 2002 Pirelli Cables Limited Eastleigh, Hants

Senior Materials Engineer

- Preparation of raw material specifications
- Definition of inward raw material quality inspection requirements
- Preparation of company procedures for material evaluation, product development, etc.
- Construction and administration of Company databases for management of material evaluation procedure and listing of approved suppliers and materials
- Preparation of COSHH assessments for new raw materials
- Ownership of material coding process in SAP Management Information system.
- During this period I was able to develop and implement procedures that resulted in a reduction of the average time to evaluate and introduce a new raw material from approximately 3 years to less than 12 months. The development of database applications enabled the identification of supply risk areas, so that resources could be more usefully directed to these areas. For the last three years I was seconded to the parent company, Pirelli Cavi e Sistemi SpA, spending approximately 30% of my time in Milan writing specifications and developing and implementing the SAP Material Coding process for the Cable Sector of the Company.

Head of Materials Laboratory

- Characterisation and evaluation of cable-making raw materials
- Goods-inward quality inspection
- Specification writing.
- Completed a course as Lead Assessor, Quality Management Systems (BS5750/ISO 9000).
- Whilst in this position I was able to redirect the Company's philosophy regarding raw material quality control, recognising that this was an area for which suppliers were primarily responsible. This enabled a re-allocation and reduction of laboratory manning.

Senior laboratory technician, Dielectric research

Laboratory technician, Dielectric research

- Research into dielectric materials for applications in energy and communications cables and systems
- I was involved in important research work studying the degradation mechanisms of high voltage (paper/oil) insulation for high voltage cables. This allowed the prediction of cable service life, enabling the Company to advise Utilities on the most efficient utilisation of their systems.

1962 – 1969

Borden Chemical Company, North Baddesley, Hants

Shift Chemist, Quality Control Laboratory

Laboratory technician, Quality Control Laboratory

- Raw material and product quality control in the manufacture of synthetic resins and adhesives.

Professional memberships

Chartered Chemist and Member, Royal Society of Chemistry (C. Chem, MRSC)

Publications

Co-author of several papers covering:

- Thermal degradation of fluid impregnated cellulosic paper insulation
- Non-flammable impregnants for fluid impregnated paper cables
- The electric strength of cross-linked polyethylene
- Mathematical modelling of high-permittivity dielectrics

Volunteer experience

1962 – 1975: Leadership of local youth group

- Obtained Hampshire Certificate in Basic Youth Leadership, with endorsement in Group Work Method.

Extracurricular activities

Member and past chairman of local history and archaeology society
Trustee of former Test Valley Archaeological Trust

Hobbies

Amateur archaeology
Reading
Music (listening)