

Materials Technology Ltd.

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CV, Nicholas Kenworthy

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Profile

Technical Director and qualified **Polymer Scientist** used to developing and implementing complex research and development projects on time and to budget. Seen as an expert by suppliers and customers in field of plastic and rubber materials and across a broad range of process industries.

Qualifications/ Courses / Skills

Post Graduate Diploma, Polymer Science & Technology (MSc course) – London School of Polymer Technology, University of North London

Degree – 2.1, Diploma of Associateship in Polymer Science & Technology (Specialisation in Plastics), GPRI - London School of Polymer Technology, University of North London

Business & Technician Education Council (BTEC), Higher National Certificate (HNC) in Polymer Science & Technology

A Levels, Mathematics, Physics & Chemistry (Southampton Technical College)

O Levels, Mathematics, Physics, Chemistry, Biology, Geography, Technical Drawing, English Language, Art

Technology Expertise

- Complete cable product portfolio
- Buss single screw compounding
- Intermix Rubber compounding
- Profile Extrusion Technology.
- Direct Injection (Sioplas / Monosil processes)
- Fire Performance Product Development and LV products
- Bausano Twin Screw compounding
- Electron Beam processing
- Continuous Vulcanisation (CV) & PLCV Processing
- Fire testing (IEC331, 332, TI, OI, BS8434, BS6387, Smoke)

Materials Expertise

- Development of novel compounds and products
- Detailed know how relating to PVC, Rubber (CR, CSP, EVA etc), FEP, ECTFE, Silicone, Low Smoke
- Expert in Fire Performance Products
- Provision of technical support to broad range of customers
- Full range of additive technology and liaison with majority of suppliers
- Full range of Thermoplastic and Crosslinked products, papers, tapes etc.
- Zero Halogen compounds (LSOH, LSF), Engineering Thermoplastics (PEEK, PA etc)
- Sioplas moisture curing
- Full range of flame retardant additives and technology
- Definition & provision of supplier specifications

Positions Held

October 2004 – Present, Material Consultant – Materials Technology Limited.

Responsible for providing a wide range of expert technical services to a range of industries. Involved in materials selection and testing, failure investigation and avoidance, compound development, inspection and quality control. Lectures to Engineers throughout industry on materials including marine surveyors, electrical approval bodies and in house training programmes. Clients include virtually all industries from multi-nationals to small enterprises. Markets include; cable, automotive, medical, marine, insurance & litigation. Expert in all aspects of polymeric materials.

2000- September 2004, Engineering Manager (Technical Manager) – LV Product Development & Materials, Pirelli Cables

Responsible for team of 8 Engineers and a budget of £500K. Reporting to the Chief Engineer. Principle duties included; Management of a Fire Test Laboratory, Analytical Laboratory and Technology Laboratory. Coordination and control of R&D programmes across 4 sites to ensure timely delivery and on budget. Development of new cable products for Low Voltage (<3.3 KV) area of business. Development and implementation of new technology in Low Voltage area of business. Development of novel cable compounds including; PVC, Rubber, LSOH and Sioplas types for internal manufacture and use by all divisions. Implementation of cost reduction initiatives across 4 UK sites and to take part in factory improvement teams. Member of Pirelli European teams working to rationalise materials and maximize purchasing initiatives. Technical authority for control and development of company material approval database in line with ISO9001 & 14000. Specify and supply technical instructions and manufacturing instructions for full range of compounds. Support sales team and customers on a technical basis. Implement and undertake joint development programmes with suppliers and external establishments.

1992 – 2000 Engineering Manager (Technical Manager) – Energy & Comms. Materials, Pirelli Cables

Manage development of internal compounds and production of, for both Energy and Communication cable divisions across UK. Manage approval of all new suppliers across UK sites. Implement and coordinate material cost reduction initiatives. Provide expert materials advice to all areas of business.

Positions Held (Continued)

1990 – 1992 Section Leader, Energy Materials Group, Pirelli Cables
1989 – 1990 Section Leader, Energy Product Development, Pirelli Cables
1988 – 1989 Senior Technologist, Special Materials Group, Pirelli Cables
1987 – 1988 Technologist, Special Materials Group, Pirelli Cables
1986 – 1987 Senior Technician, Special Materials Group, Pirelli Cables
1984 – 1985 Laboratory Assistant, Rubber & Plastics Group, Pirelli Cables

Other Skills & Courses

- MS Office training including Word, Excel, Powerpoint & Access Database
- Small Project Management, Project Planning
- Failure Modes & Effects Analysis (FMEA)
- Analytical Test methods; DSC, DTMA, TGA, FTIR
- Leadership Development & Practice of Management.
- Project Management Skills Development
- Principles of Effective Management
- Manufacturing - Theory of Constraints
- Design of Experiments (DOE)
- Finance & Accounting
- Introduction to Marketing
- Systematic Approach to Projects
- MS Project Management & SAP Business Software (User Level)
- Time To Market (TTM)
- Process Improvement Cause Analysis (PICA)
- Commercial Awareness
- Italian Threshold Level (London Chamber of Commerce Examination)
- Statistical Process Control (SPC)
- Problem Solving Techniques
- Process Mapping
- Achieving Quick Turn-around (SMED)
- Instructional Techniques
- Total Quality Management (TQM)
- Principles of Extrusion
- Touch Typing

Memberships & Working Groups

Chairman of British Cablemakers Association Environmental Group
Member of Europacable Environmental Group
Cenelec - Working Group Materials

Other information

Date of Birth: 6th January 1963

Driving Licence: Full clean licence

Other: CRB Cleared for work in schools, Security Cleared for Ministry of Defence work.