

Curriculum Vitae

M.B.Jeruzal

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PERSONAL

Full Name – Mark Bronislaw Jeruzal

Date and place of birth – 5.3.57, Falkirk, Scotland, UK

Citizenship – British

Marital Status – Married (Isabel)

Children – 2 sons ; Craig & Philip

EDUCATION

Secondary Education :- 1969 – 1974 Falkirk High School

Tertiary Education :- 1981 – 1989 Open University - BA Hons. (Chemistry)

Membership – 1989 Graduate of the Royal Society of Chemistry (GRSC)

EMPLOYMENT

1974 – 1977 Laboratory Technician, BP Chemicals, Grangemouth

Quality control of various chemical plants on the BP site at Grangemouth.

1977 – 1978 Laboratory Technician, Amoco, Montrose Oil Platform

Quality control on oil production platform in North Sea

1978 – 1990 Senior Laboratory Technician, BP Chemicals, Grangemouth

Initially working within Quality Control for LDPE products (BXL Plastics formerly owned Union Carbide and subsequently bought over by BP Chemicals)

Promoted to Senior Technician within the Technical Service and Development (TS&D) Application Group for Wire and Cable (W&C) products – specialising in

the testing of high pressure tubular LD polyethylene products for high line speed telecommunication wire and sheathing / jacketing applications. This includes all aspects of testing, from ensuring products complied with international specifications and customer related topics, to plant production related issues.

Developmental product analysis including expertise in extrusion, mechanical and life-time testing.

Responsibility for auditing and compliance of external sources of raw materials and external production for W&C products.

1990 – 1999 Senior Technologist, Pipe Products, BP Chemicals, Grangemouth

A dual role comprising both customer support and project development objectives assisting in the delivery of the Pipe Business Team Plan.

Technical service responsibility was undertaken for key pipe customer accounts and geographic areas (UK, Scandinavia, Middle East, Eastern Europe).

Project Leader for various developmental projects relating to the Pipe Business which included responsibility for financial budgets and definition of future project direction. ;-

- i) These projects were primarily related to the production of PE pressure pipe resins suitable for gas, water and sewage applications (LDPE, Slurry HDPE and Gas Phase HDPE, bi-modal HDPE) for use by downstream pipe manufacturers.
- ii) Product Management responsibilities include pipe formulation development with particular focus on processing aids, pigments and additives.
- iii) Responsibility for ensuring correct production (compounding) sources for pipe manufacture. This includes technical acceptance of product from new compounding lines.
- iv) Cost effective solutions with raw material suppliers – pigments, additives, processing aids. Carrying out audits of external suppliers.

Responsibility for technical direction in licensing of pipe resin technology (Innovene Gas Phase) and ensuring technology acceptance e.g. production of pipe resins at PEMSB, Malaysia and for joint marketing agreements with other resin suppliers e.g. LyondellBasell, Germany for supply of bi-modal pipe products.

Technical Leader for Telecom Ducting applications.

Support for Process and Production issues relating to pipe resin issues.

Pipe Laboratory Leader with direct supervision of pipe laboratory technicians and for purchase of laboratory equipment suitable for pipe testing.

Responsibility for pipe technical literature including customer supply data sheets, plant production specifications, technical manuals for external use, training manuals.

Deputy role for Technical Group Management

1999 – 2009 Senior Technical Engineer, Pipe Products, Dow Europe, Horgen, Switzerland

Senior technical engineer for HDPE and Inspire PP pipe resins for Dow Europe and South Africa with a focus on value creation.

Project Leader in delivering new products based on Dow's proprietary technology, suitable for pipe applications.

Subject matter expert for Dow globally (Dow has pipe resin production capability in North and Latin America, South Africa & Europe).

Focal point for Intellectual Capital Management (ICM) relating to the application and opposition of patents filed relating to new technology.

Member of the European Pipe Technical & Marketing Team which determines Business direction and future planning.

Technical service responsibilities for all key accounts in Europe with specific geographic responsibilities covering North and Eastern Europe

Member of ISO/TC138/SC5/WG5 committee for test methods relating to polyolefin pipe products

6-sigma green belt certified.

2009- 2015 Application Technology Leader, Drinking water and gas (DW&G), Pipe and Fittings Business Unit, Borealis, Linz, Austria

Application Technology Leader for drinking water and gas (DW&G) pipe resins within the Borealis Innovation HQ in Linz, Austria.

Member of the Application Marketing Team with a primary focus on strategic developments of polyolefin pipe products within the Borealis Group (and liaison with Borouge, UAE)

Member of the Product Management team with prime responsibility for Drinking Water & Gas pipe resins :-

- i) Steering team member (Business Unit representative) on innovation projects
- ii) Project Leader for the ongoing improvement process of PE products suitable for drinking water and gas pipes, with the aim of delivering best in class processing performance
- iii) Project Leader for delivering cost effective raw material solutions

- iv) Identifying new opportunities for consideration as part of future strategy
- v) Monitoring competitive products via benchmarking, defining value creation scenario for Borealis.
- vi) Support for Process and Production functions relating to pipe resin issues.
- vii) Liaison support for Borouge on technical issues relating to DW&G products.

Team member of several Working Groups related to future strategy (roadmap development) within the Borealis organization

Development of manuals and training packages suitable for the pipe application area and for the training of all functions concerned with the role of supply of pipe resin.

Lead technical quality auditor for the Pipe Business related to external production facilities and raw material supply.

Focal point for Intellectual Property (IP) issues relating to the application, ensuring Borealis's strategic aims are met through "patent watch" including stringent patent filing, opposition and infringement issues.

2015 – Present **Consultant, Mark Jeruzal Consultancy**

Consultant to the PE pipe resin production industry from reactor to pipe installation (including additives and intermediate masterbatches supply) with expertise in infrastructure, oil & gas and domestic applications.

Experience includes, polymer design, material compositions, technical service troubleshooting, application development, advice on processing, testing and standardization, auditing of both internal functions and external suppliers.

Application training on all aspects of polymer production, pipe resin and pipe production.