



**MPE**  
Quality, Reliability, Performance

# Company Bulletin

for EMC, EMP & TEMPEST Protection

## Issue 9



Jan Nalborczyk

### Spotlight on Jan Nalborczyk

Technical Director Jan Nalborczyk first joined MPE in November 1979, when it was still Dubilier, as its Design Engineer. Via positions as Assistant Chief Engineer in 1981 and Chief Engineer in 1985, he assumed the role of Technical Director in 1995. Jan was one of four Directors who formed the management buyout team in February 1997 leading to what is the current MPE.

Since almost half of MPE's production consists of customised designs, Jan and the engineering team have always fulfilled a central role in researching and developing new designs and modifying existing ones.

This work has included technical liaison with customers around the globe on their applications and supplying them with product samples alongside technical proposals. Jan has worked closely with many customers, such as the UK's Ministry of Defence, on all aspects, providing advice and technical support on product suitability, specifications, quality and performance, developing ground-breaking new products, overseeing installations and organising end user training.

Jan graduated from the University of Birmingham, UK, in 1973 with a BSc Honours degree in Physics. Initially he took a position as Research Engineer at the Lucas Group Research Centre in Solihull, where he worked for three years on varistor materials and their properties – for which he was granted two patents – as well as other automotive projects. Then Jan chose to move into engineering as a Process and Development Engineer on ceramic capacitors – at Erie UK which became ITT Components in Norwich – prior to late 1979 when he joined Dubilier, which at the time had two factories in the Knowsley area of Liverpool.

At those sites millions of low-cost capacitors and resistors were being produced weekly for the mainstream consumer TV and white goods market. However, with increasingly severe competition from the Far East, the decision was taken to reorientate production towards low-volume, highly technical products – specialist EMC filters and capacitors for niche markets such as defence, aerospace, telecommunications and shielded rooms – a strategy pursued with great success to the present. Ericsson, Hewlett-Packard and Schaffner were typical of the major specialist accounts which the company attracted in those early days.

Fast forward to August 2011, when Jan was recruited as the representative of the EMC Industry Association (EMCIA) to the BSI GEL210/12 Committee. He immediately went on to represent the BSI on the highly prestigious SC77C Committee of the International Electrotechnical Commission (IEC), starting with his first meeting in Seoul, Korea, in October 2011. This Committee is concerned with standardisation in the field of EMC to protect civilian equipment, systems and installations from threats by man-made, high-power transient phenomena, including the electromagnetic fields produced by nuclear detonations at high altitude.



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In July 2014, for his contributions to advances in HEMP filter design, Jan received the rare honour of being elected a Fellow of the Summa Foundation, based at Albuquerque, New Mexico: this is a philanthropic organisation of global stature which promotes scientific and educational activities in the field of electromagnetics. Jan is also a Chartered Engineer (CEng) and Member of the Institution of Engineering & Technology (IET).

Jan and his wife live in Ormskirk, Lancashire, and have three grown-up children, two sons and a daughter. Jan's hobbies include theatregoing, country walks with the family dog and world travel.