



## Alan Lorimer

### PROFILE

Areas of technical expertise developed during a long (35+ years) career in the cement industry include plant optimisation, kiln process control, flames, use of waste fuels, development of novel cement clinkers, high efficiency classifiers, kiln chains, process design, plant commissioning, plant assessments and development of works improvement plans and general problem solving.

He has excellent communication skills and is a competent assessor and trainer of individuals with emphasis on training and developing future kiln operations personnel particularly relating to new kiln installations. In the course of his career he has worked in the UK, USA, Canada, Malaysia, Philippines, Thailand, India, Kenya, Nigeria, South Africa, Egypt, and Saudi Arabia – both on Blue Circle cement sites and with external consultancy projects. A significant input was also made to the technical training programmes within Blue Circle Industries which were acknowledged as World Class. During the course of his career he has co-written and/or presented a number of external papers on the subjects of alternative fuels, firing systems, Expert systems, and general kiln improvement.

### EDUCATIONAL

Qualifications: BSc in Chemical Engineering, Bradford University, U.K.

Languages: English & Spanish (Basic)

### PROFESSIONAL EXPERIENCE RESUME

*APRIL 2002 CPI SENIOR PROCESS CONSULTANT*

Following the take-over of Blue Circle Industries by Lafarge, became an independent cement industry technical consultant working for **CPI**.

*2000 – 2002 MANAGER – ALTERNATIVE FUELS, APPLICATIONS BCTC*

In late 2000, the Blue Circle technical Centre was re-organised to prioritise its resources to focus on the overall strategic aims of the business. At that time an alternative fuels group was formed with the aim of assisting the business units to achieve zero fuel costs. Alan was appointed the manager of a group of 8 engineers targeted with assisting sites in the application of alternative/waste fuels. In addition, he also continued to be responsible for the co-ordination, identification and supply of the required technical support for the Blue Circle plants in North America.

*1998- 2000 PRINCIPAL PROCESS ENGINEER, BLUE CIRCLE TECHNICAL CENTRE*

Led a team with special responsibilities for kiln processes worldwide, and for co-ordinating all technical assistance to seven kiln plants (and two grinding facilities) in North America. In this period continued to work in the cement industry around the world, but with an increasing emphasis on input to North America.

*1992-1998 SENIOR ENGINEER, BLUE CIRCLE TECHNICAL CENTRE*

Took on a greater responsibility for training and development both of young process engineers and within the formal BCI training courses. These training courses included those intended to develop the knowledge base of personnel from BCI worldwide, and also courses tailored to the needs of individual sites. During this period more emphasis was put into problem solving on individual sites, and to assisting the sites develop long term improvement plans. This includes the initial assessment and development of the improvement plans for three sites brought into the Blue Circle group during this period, one in Canada, one in the USA and one in Malaysia. He also supervised the commissioning of a new large scale (6,000tpd) plant in which the clinker production was based on pre-calcliner process. Also took part in consultancy projects, assisting outside organisations within cement industry world-wide.

*1973-1992 CHEMICAL ENGINEER, BLUE CIRCLE INDUSTRIES PLC.*

Initial employment was in the Research group, with a major contribution to the commissioning and optimisation of the LINKMAN kiln control systems of seven plants in the UK, USA and South Africa. Subsequently joined the Engineering Support function providing general plant assessments (in the UK, USA and Africa) and, with the plant teams, preparation of site improvement plans.

### **Published Papers**

Modern Grate Coolers, International Cement Review, May 2002.

A Low Cost Plant Up-Rating, by PL Dover and LP Evans, at AFCM 11<sup>th</sup> Technical Conference, Bangkok, March 1990.

An expert System for Kiln Control, M Hislop and A Lorimer, India, 1989

Blue Circle High level Kiln Control – DW Haspel, ADJ Lorimer, CJ Southan, RA Taylor – IEEE, San Francisco, May 1987

Sensors in the cement Industry, Institute of Ceramics, Imperial College, June 1984

Solid wastes as Auxiliary Fuels with Specific Reference to Cement Manufacture, TM Lowes and ADJ Lorimer, International Conference on Combustion of Tomorrows Fuels, Santa Barbara, California, November 1982.

Waste as a Fuel, TM Lowes and AD Lorimer, International Energy Management Conference, National Exhibition centre, Birmingham, England. - Oct 1979.

Burning of Solid Waste in Flames, TM Lowes and AD Lorimer, Institute of Energy, Energy from Waste Burning Symposium, Portsmouth, 20<sup>th</sup> Sept 1979