

Michael Bowness
External Consultant

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Qualifications BSc Special Honours Chemistry

Affiliations Chartered Engineer
Fellow of the Institute of Materials (UK)
Fellow of the Coke Oven Manufacturers Association
Assessor, European Foundation for Quality Management

Date of Birth 18 August, 1943

Nationality British

Current Position at CWA

External Consultant to the Metals & Minerals Department.

Specific Expertise and Experience at CWA

Former technical manager of British Steel with over 35 years' extensive international experience of steel industry production and quality control.

An experienced Operations and Technical Executive with 38 years successful experience in international manufacturing companies, and has extensive experience of iron ore cargoes.

Summary of Previous Employment

1999 to date **Independent Consulting Engineer**

1997-99 **Gunawan Iron & Steel, Malaysia**

Operations Director

BF/BOS/Continuous Casting Plant and Plate Mill. Development of recruitment and raining strategies, development of process strategy and cost structure, finalisation of equipment/process design, establishment of environmental policy in conjunction with Malaysian authorities, performance and product development.

1970-1997 **British Steel**

Manager, Special Projects, Teesside

Managed the Technical Development programme with Nippon Steel Corporation. Collation and analysis of Iron and Steelmaking data worldwide for database development.

1993-1996 **British Steel**

Works Metallurgist, Teesside

Continued development of SPC, Chairman of the Works SPC Steering Committee, development of QA procedures, development of procedures to increase scrap consumption on BOS, improve segregation characteristics

Technical Manager Steelmaking, Teesside

Acting Chief Metallurgist, Scunthorpe

Technical Manager Ironmaking, Teesside

Works Manager Cokemaking, Teesside

Works Manager Steel, Workington

Manager Steelmaking, Workington

1969-1970 **United Steel Company**

PA to General Manager Technical

Studied current state of Steelmaking at UK plants including following processes: LD, LD/AC, Kaldo, Rotor, Ajax and Electric Arc.

1964-1969 **Workington Iron and Steel Company**

Systems Analyst – Bessemer Process Control Scheme.

Assistant Metallurgist in Process Metallurgy section.

Bessemer and Arc Steelmaking, Rail Rolling and Finishing. Developed Oxygen blowing in Acid Bessemer plant, developed Ingot balancing theory, substantially improved Rail Steel surface quality.

Papers Presented at Conferences:

An Organisational Approach to Effective Statistical Management, Process Control (with S Ravidran, D Laight), 1st World Congress for Total Quality, 1995
Competitiveness through Innovation – the British Steel Experience, European Research and Technology Fair, 1995
Iron to Steel – Managing the Interface, AIME Ironmaking Conference, 1994
The Production of High Purity Steels at British Steel Teeside Works, European Oxygen Steelmaking Congress, 1993
Steel 2000 – ‘Whither or Wither’, Presidential Address, Cleveland Institution of Engineers, 1992
Coke Handling at Redcar Works; Steps to Improve Bell Coke Yield; The Blast Furnace Route to Pig Iron, British Institute of Foundrymen Conference, 1989
Coke Quality Investigations and Developments within British Steel, European Blast Furnace Committee, 1989
A High Proportion of Lump Ore, International Iron & Steel Institute Conference on Ironmaking Burdens, (with J E Parratt), 1988
Sinter Quality Developments at Redcar Sinter Plant, 1987
Developments in Ironmaking Practice at the Redcar Blast Furnace, Cleveland Institution of Engineers, 1986
Coal, Coke Oven Operations at Redcar, Institute of Materials Conference, 1977
The Control of Nitrogen in Bessemer Steel, West Cumberland Metallurgical Society, 1969

Other Published Papers

Ferritic Rolling: The Metallurgy and the Economics, 2000
The Application of Statistical Process Control (with S Ravindran, D Laight), 1994
The Application of SPC to Ironmaking Operations at BSC Teeside Works, 1988
Coke Quality for Successful Blast Furnace M M Bowness et al Operation, Iron and Steelmaking, Vol. 14, 1987
Developments in Ironmaking Practice at the M M Bowness Redcar Blast Furnace, 1986
Preheated Coal Operations at Redcar Coke Ovens (with JP Guerin), 1984