



Arthur Harrison

PROFILE

A cement and concrete technical expert with an international reputation. Has been involved in innovation in process improvement, in commissioning of three kiln lines and in project management of major projects involving research and development and practical implementation. Particular expertise involves chemical and physical evaluation of raw materials and their processing for optimum efficiency for clinker and cement production through to optimum quality of product.

EDUCATIONAL & PERSONAL

Date of Birth: 5 December 1951
Qualifications: Geology Honours Degree
Languages: English

Professional Experience Resume

2007 - PRESENT CONSULTANT ENGINEER

- Technical support to consultancy clients in international locations

1997 – 2007 RUGBY CEMENT/ CEMEX CHIEF CHEMIST - HEAD OF PROCESS CHEMISTRY/CHEMISTRY PROCESS MANAGER

- Improvement of cement quality in site concrete as opposed to mortar prisms.
- Optimisation of the chemistry of clinker and cement at sites in UK, Croatia and Poland
- Assessment of raw material at sites in UK, Croatia and Poland with recommendations for improvements.
- Development of control processes for maintaining clinker quality and production improvements by the use of combinability testing in the lab, clinker microscopy, raw material preparation and testing.
- Monitoring of production data from sites and liaison with personnel at all sites to effect improvements where necessary.

1994 - 1997 MOTT MCDONNARD - MATERIALS ENGINEER

- Project management of research projects relating to construction materials
- Assistance to clients in use of materials
- Specification of concrete designs and materials for major projects
- Consultancy in clinker manufacture to cement companies in UK and overseas
- Expert witness for legal claims worldwide

1987 – 1994 WHD MICROANALYSIS CONSULTANTS LTD - MANAGING DIRECTOR

- Consultancy formed with partner providing electron microscope services to construction industry. Very successful projects carried out with Rugby Cement, Tarmac, RMC, Hanson etc.
- Publications and presentations worldwide in cement chemistry and microscopy.

1979-1987 BLUE CIRCLE CEMENT – SENIOR SCIENTIST – GREENHITHE, KENT, UK.

- Trained as cement microscopist. Established and ran electron microscope laboratory. Carried out research projects concerned with fly ash in cement, blast-furnace slag in cement.
- Developed methods of classifying clinkers based on chemistry and mineralogy using SEM microanalysis techniques.
- Developed mineralised clinker recipes (1980) with combination of sulphate and fluorine.

1974-1979 INSTITUTE OF GEOLOGICAL SCIENCES (NOW BRITISH GEOLOGICAL SURVEY) GEOLOGIST.

- Responsibilities included Supervision and planning of all mechanical repairs including MRD, both planned and breakdowns. Liaise with other departments regarding day-to-day and long-term running of the works.