Professor Stuart Blackburn MSc, PhD, DMS, MIMM, FICME

Professor of Solids Processing

School of Chemical Engineering (/schools/chemical-engineering/index.aspx)

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Qualifications

- BSc (Hons), Geology, Portsmouth Polytechnic, 1980
- MSc Mineral Chemistry, The University of Birmingham, 1981
- PhD Minerals Engineering, The University of Birmingham, 1983
- Diploma in Management Studies, Staffordshire Polytechnic, 1991

Biography

- The University of Birmingham, (1990 -)
- Research Centre Head, IRC in Materials Perocessing, (2001 –)
- Professor in Solids Processing, (2003 –)
- Programme Manager Chemical Engineering, (2007 –)
- Foseco plc and Universal Abrasives Ltd, 1984 - 1990

Research

Brief Summary of Research Interests in Particle Technology

The group led by Stuart Blackburn (Professor in Solids Processing) has interests in the flow of pastes but has also widened the original IRC programmes to include more component and formulation orientated projects.More emphasis is now placed on the development of structured and functional materials and products.
Outputs

Of the PhD's and RF's that have been completed recently, many work in related industries, including refractories, foods, aerospace and the government office for technology transfer. Some have remained in academia to become lecturers. The most successful technology transfer has been with Rolls-Royce plc where the group has had a continuous relationship for over 10 years.

Interdisciplinary Research Centre (IRC) in Materials Processing

Professor Blackburns's research work and group is affiliated to the IRC which is one of the UK's leading laboratories in the processing of advanced materials. The research activity aims to develop metallic alloys, ceramic and polymeric formulations to enable the manufacture of advanced components. These materials are designed with specific processes in mind so that the desired microstructure as well as macrostructure are developed to give specific mechanical properties and functionality. We aim to:

- Use a design driven approach to develop new materials, processing and manufacturing technologies
- Transfer the results to industry, either through dedicated research programmes or through the training of researchers.

The equipment base is extensive and often on a pilot scale.

To find out more information visit the**IRC web link (http://www.irc.bham.ac.uk/powder/forming/index.htm)** to Professor Blackburn's activities.

Other activities

- Ivor Jenkins Medal, IOM 3, 2008
- British Foundry Medal, ICME, 2007

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