



Maelgwyn Mineral Services Ltd

SMART

Cardiff-based Maelgwyn Mineral Services has developed a highly innovative technique set to revolutionise the mineral and waste processing industries.

MMS is an SME dedicated to developing and commercialising patents and proprietary technology in the fields of mineral, chemical and waste processing. They recently relocated to Cardiff to make use of the new CLEER laboratories of the Engineering Department of Cardiff University.

Their "G-Cell" – developed with the aid of the SMARTWales award – is a pneumatic flotation separation device for the economic recovery of minerals and metals. It can also be used for environmental remediation of waste and contaminated industrial sites.

Because of the scale of investment involved in developing new projects, mine operators are traditionally "slow adopters" and are currently using 100-year old technology supplied by a very small number of very large multi-nationals. Already the G-Cell, in its relatively short development, is gaining market acceptance worldwide. Its first successful industrial application is in gold recovery in South Africa, its second in Kaolin



recovery in Germany and its third is currently being supplied to a coal mine in Russia.

This last contract, worth over £1 million, will be one of the largest fine coal recovery plants in the world and will establish G-Cell as proven technology in this huge worldwide industrial market. It has been patented in Europe and key countries worldwide.

The new G-Cell design enhances separation in difficult process applications – speeding the process significantly over rival technologies, increasing separation rates and reducing costs. Its compact, modular design means it can be adapted for use in a wide range of industries and can even be moved from site to site.

"We're hoping to create a paradigm shift in the way the industry operates," says MMS's Mike Battersby.

To find out more about this project, please contact:

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