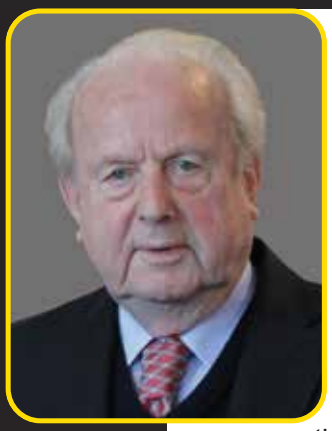

Hermann Paus

Hermann Paus was an innovator in underground mining equipment and was a great ambassador between the mining industries of the West and the former Soviet Union.

He was born in 1932 and had studied agricultural engineering. He founded the company Hermann Paus Maschinenfabrik in 1968. Since 1974, the company has been designing and producing machines for mining.

The earlier Paus products acquired an excellent reputation, especially in the former Soviet Union. This was particularly the case for the transport vehicles 'Berga-Tank', 'Alltrans and especially for the MinCa 26 of which some 100 units were delivered.

After these initial successes, new technologies for underground mining were developed in collaboration with German mines from the end of the 1970s. The backfilling technique with slinger belt was one of these new technologies allowing mines for the first time to backfill mined out areas.

MinCa 26

In the 1980s, Hermann Paus then made a name for himself with the introduction of trackless transport techniques in German hard coal mining.

For the first time in Germany, flame-proofed vehicles equipped with rubber tyres were used for the transportation of roof supports. On the basis of this development, roof supports up to 50 t are still transported with these vehicles today.

Further machines for mining introduced by Paus were personnel transporters and graders for road maintenance.

A key development was a dry exhaust gas cooling system for flame-proofed diesel engines which makes for almost maintenance-free operation. Right from the start, Paus used the relatively new technology of hydrostatic drives avoiding the overheating of mechanical brakes by using internal force. This effect made it possible to use rubber-tyred vehicles in flame-proofed areas. In 1984, Paus developed the first electro-hydraulic 25 t dump truck which was operated by a 1,000 V pantograph.

During his active working life, Hermann Paus has made his name not only by the developments described here, but above all by constantly designing new individual solutions for underground mining transportation tasks – a competence which still characterises his company today.

Between 1996 and 2002, Hermann Paus was also a Board Member of the German Mining Machinery Association.

In 2001, Hermann Paus was honoured with the order 'Bergmansehre II Stufe' by the Mining Ministry of the Russian Federation, recognising his contributions to Russian mining.

Then in honour of his 70th birthday in 2002, he became an honorary faculty member in the Belarus Mining Academy in Minsk. Also in 2002, he handed over the reins of the company to his two sons, Wolfgang and Franz-Josef, and since then, the business of Hermann Paus GmbH has been successfully continued by his two sons.

Vladimir Kuryanov, a former broker and agent who worked extensively with Paus states: "With a feeling of deep respect and with the warmest and best regards, I would like to mention the merits of Hermann Paus and talk about his contribution the to development of Russian-German economic relations in the field of the Russian mining industry. The company's first products earned an excellent reputation in the market of the Soviet Union and, later, in the post-Soviet countries. Since the middle of the 1970s to the end of the 1980s the equipment of Paus practically had a monopoly in the Russian market due to its performance. But it was the delivery of Paus

vehicles for the transportation of Hemscheidt roof supports in the potash mines of Belaruskali in the 1980s that was a revolutionary moment for Paus in the Soviet market. Paus machines in the former USSR were distinguished by high reliability and an individual approach to each customer. All this was achieved thanks to the personal qualities of Hermann Paus, an outstanding engineer and as a person who was able to establish a personal relationship of trust with Soviet specialists."

A statement from former Belaruskali Director General and Laureate of the State Prize of the Republic of Belarus (Candidate of Technical Sciences), AN Bashura says: "Representing the companies Paus and JSC Belaruskali, we are bound together by decades of joint work. During this time, we solved many problems such as the provision of vehicles for delivery of miners in the mine, loaders of different modifications, telescopic towers and dinting machines. A huge role in this was played by the head of the company Hermann Paus. This man is an engine of technological progress, decency and responsibility. I want to also note the high quality of the supplied equipment, which has proved itself again and again. I want to express my deep gratitude to him for 20 years of work and collaboration."

Another statement from Eberhard Drews, Dipl-Ing, Chief Engineer and Product Manager for Mechanic Equipment at mining group Sachtleben Bergbau GmbH, and proxy holder in charge of mining machines from 1967 up to 1989 said: "In 1974, Sachtleben Bergbau GmbH of Lennestadt-Meggen started the production of several types of mining machines in cooperation with Metallgesellschaft and Paus. Since then, Paus has developed diesel driven machines for mechanised underground mining and more than 150 units were built in cooperation with Sachtleben but also used in other mines in Germany, Thailand, Canada, China and elsewhere. In all those years we have been working together, we got to know Hermann Paus as an innovative and committed partner who understood the forthcoming tasks underground and who always supported us."

The equipment included trucks with payloads of 5 to 25 t (heavy duty mine trucks with concept for one drive, either by diesel engine or electric motor), EL-trucks, one to three-boom drilling equipment, backfill carriers, support equipment, slinger belts, lifter units for different jobs and other units used for various mining activities.

A final statement by Professor Dr Hans Jacobi, the former Mine Director at RAG Walsum coal mine says: "Together with the Walsum mine the company Paus has accomplished many pioneering infrastructure developments for German coal mining from 1983 to 1990. The Walsum mine prepared a new mining field in a way that personnel and material transportation could be executed with the newly developed rubber tyred vehicles. The diesel powered personnel and material transporters and especially the roof support carriers with flameproof protection were key innovations which have contributed significantly to performance increases seen in the mining industry. Hermann Paus himself pushed this development with huge commitment and the willingness to take risks. To him we owe an appreciable innovation in the coal mining industry due to his personal skills, his commitment and his reliability."