

# MIKALAI KHOMICH



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## EMPLOYMENT RECORD

**Director** of the scientific-engineering company *Polimag* (Belarus) (1991 – present).

**Head** of the scientific-research laboratory *Technology and Automation of Machine Building Production* of the Belarussian Polytechnic Institute (1987 – 1991).

**Junior** and then **Senior Research Officer** in *Physic-Technical Institute* of the Belarussian Academy of Science (1970 – 1986).

All scientific activity during 35 years has been dedicated to research and development of the technologies and equipment for the Magnetic-Abrasive Machining.

As a research manager and responsible executive has realised more than 30 scientific research projects of the creation, research and industrial application of technologies and equipment for Magnetic-Abrasive Machining for samples of different materials (metals, alloys, ceramics, etc.). Main works has been realised on the orders of the enterprises of defence industry of the former Soviet Union, Russia and Belarus (rocket-space industry, nuclear machine building, aircraft industry, shipbuilding, electronics, etc.).

## EDUCATION RECORD

**Ph.D, Physic-Technical Institute**, Minsk, Belarus (1981).

Dissertation on Magnet-Abrasive Machining.

**Belarussian Polytechnic Institute.** Diploma of the mechanical engineer. Specialisation: Engineering Technology (1967 – 1972).

## PUBLICATIONS

100 scientific publications, 50 Soviet patents and more than 20 foreign patents (including those of the United States, Japan, Germany, Italy and other countries).

### Examples:

Khomich M. *Magnetic-abrasive treatment of the manufactured articles*. Minsk, BNTU, 2006. 218p. (RU)

Khomich M., Alexeev Y., Demmer A., Pahler D., Dambon O., Schneider U. *Magnetic-abrasive machining of silicon wafers - a novel approach* // Industrial Diamond Review. 2004, № 3, pp 45- 48.

Khomich M. *Magnetic-abrasive machining: design and equipment. Magnetic fluids and powders – new technological materials. Scientific problems and applications*. Minsk, BPI, 1991, 44 p. (RU)

Yashcheritsyn P., Feldstein E., Khomich M. and Pribylskiy V. *Advanced methods for the diamond – abrasive machining* // Materials, technologies, instruments. 1997, № 2, pp. 44–52. (RU)

Shashin V., Khomich M. *Composite magnetic-abrasive powders from waste of tool production* // Scient international. Symposium a composite metallic materials. CSFR, 1990, pp. 320-330.

Vlasenko E., Khomich M., Fiodartsau R. *Composite ferro-abrasive powders for polishing in magnetic field optic and electronic parts* // Reports of 4<sup>th</sup> Republican scientific and technical conferences. Minsk, 2003, pp. 115–117. (RU)

Vlasenko E., Lugovik A., Khomich M., Fiodartsau R. *Approbation of polishing technology in magnetic field of electronic details and optical techniques* // Collected scientific works "SRWS-2002". Minsk, 2003, pp. 457-460. (RU)

Logvinenko P., Ryabov S., Khomich M., and others. *Lubrication cooling (cutting) fluids having high technological and anticorrosive properties based on binar water solutions of oligomer – surface active substances* // Physical and chemical mechanics of materials. Lvov, 2000, № 1, pp. 540-545. (RU)

Kuhto P., Khomich M., Fiodartsau R, Lugovik A., Vlasenko E. *Modelling kinematics of interaction the magnet-abrasive tool with surface* // News Belarus engineering academy. 2005, № 2, pp. 147-150. (RU)

## PERSONAL

Languages: Russian, Belarussian, Polish.

Born: Luchitzky, Belarus, March 17, 1947.