

2. Laudatio for Professor Leszek A. Dobrzański, DSc, PhD, Dr. Habil. Eng., Doctor Honoris Causa of the University of Miskolc, Hungary

**Magnificence Rector,
Distinguished Members of the Senate,
Distinguished Members of the Faculty
Board of Mechanical Engineering and Informatics,
Honorable Doctor Honoris Causa,
Ladies and Gentlemen,**

It is my great honour to present you Professor Leszek A. Dobrzański, who shall be awarded the degree of Doctor Honoris Causa of the University of Miskolc due to the initiative of the Institute of Material Science and Technology. This initiative obtained unequivocal support of the Board of the Faculty of Mechanical Engineering and Informatics, and the unanimous decision of the Senate of the University of Miskolc.

The present ceremony expresses the recognition of Professor Dobrzański's outstanding contribution to the development of science. At the same time, the fact that such a scientist of worldwide recognition, who has had long-term friendly scientific relations with Hungarian Research and Higher Education Institutes and in particular with the University of Miskolc is now joining the group of doctors honoris causa of our university is the reason for pride and joy of the academic community of Miskolc University.

Professor Dobrzański was born on 4th September 1947 in Gliwice, Poland, where he resides permanently. He graduated from the Faculty of Mechanical Engineering of the Silesian University of Technology in Gliwice on 15th March 1971, being awarded with the diploma

with a distinction. He completed his PhD thesis under the supervision of Prof. Jan Adamczyk, Honorary Professor of the Silesian University of Technology and then distinguished with the Award of Minister, and defended it in 1977. He completed his DSc dissertation and defended it in 1990. The President of Republic of Poland conferred to him the title of professor in 1995. He is an academician since 1992, and President of the World Academy of Materials and Manufacturing Engineering (WAMME). Since 2016 he is a Vice President of the Academy of Engineering in Poland.

Permanently, since 1971, he works at the Faculty of Mechanical Engineering of the Silesian University of Technology in Gliwice. Since 1998 he is full professor of the Silesian University of Technology. Between 1997-2013 Prof. Leszek Adam Dobrzański, was the Director of the Institute of Engineering Materials and Biomaterials of the Silesian University of Technology, and simultaneously the Head of the Division of the Materials Processing Technology, Management, and Computer Techniques in Materials Science. He was elected, for three terms – in 1990-93 and 1999-2005 – as Dean of the Faculty of Mechanical Engineering of the Silesian University of Technology. In 2012-2013 he was the Vice-Rector for Science and Industrial Co-operation of the Silesian University of Technology in Gliwice.

He has been married for 43 years with his wife Teresa, who is also a master of science and sanitary engineer. They have three children: the daughter Marzena Kraszewska is a master of English philology, the daughter Anna Dobrzańska-Danikiewicz is a Professor in „Materials engineering”, and their son Lech Dobrzański is a master of science and electronic engineering.

Prof. Leszek Adam Dobrzański, has been awarded with many distinctions and medals for his contributions for development of science and co-operation of the scientific society of Poland with the scientific societies of other countries, including being conferred twice the highest dignity of Doctor Honoris Causa in Rousse (Bulgaria), in Khmielnitsky (Ukraine) and now in Miskolc (Hungary). He was awarded by the President of Poland with the following Crosses: Commander's, Officer's and Knight's of the Order of of Polonia Restituta, and with the Golden and Silver Crosses of Merit, and also by the Ministries of Polish Government with the Medal of National Education Commission and Medal for contributions to the Machine Industry.

The main areas of Professor Dobrzański's scientific activity include materials science and materials engineering, and among them design and operation of machines, organisation and management, within the specialisation:

- metal and non-metal engineering materials (metals, polymers, ceramics, and composites),
- functional materials, photovoltaics, metal and ceramic tool materials, light metals alloys,
- biomedical and dental engineering and materials,
- nanotechnology and nanostructured materials, gradient technologies and materials,
- fundamentals of production engineering, engineering materials manufacturing and processing technologies,
- metal forming, thermal and thermomechanical treatment of metal alloys,
- powder metallurgy, surface engineering, including PVD and CVD coatings, as well as laser alloying and remelting,
- automation and robotisation of engineering materials processing, investigation methodology of structure and properties of engineering materials,
- materials design methodology, computational materials science, computer assistance of engineering tasks and applied computer science,
- technical and computer science education and e-learning, industrial management and foresight research.

Professor Dobrzański's scientific achievements in these fields are really spectacular. He has published more than two thousands papers many of them in leading journals. He has wrote 47 books, and is the author of 26 chapters in books. He has also thousands of citations in world leading journals, Scopus and Web of Science. He has been regularly invited to deliver plenary and keynote lectures in main international conferences on materials and material processing.

Prof. Leszek Adam Dobrzański, is a leader of the Scientific School actively created by him new scientific specialisation "Computational materials science and surface engineering", surface engineering, advanced engineering materials and materials processing technologies, which resulted in promoting by him in person of a group of 55 completed PhD theses, as well as several hundreds of MSc and BSc theses.

He is simultaneously very much engaged in the organization of science. He has established the World Academy of Materials and Manufacturing Engineering. He is also the

President of Association of Computational Materials Science and Surface Engineering. He is regularly organising international conferences with world-wide participation. He is the editor in chief of various international journals, just mentioning some of them: Journal of Achievements in Materials and Manufacturing Engineering, Archives of Materials Science and Engineering, Archives of Computational Materials Science and Surface Engineering, etc.

The briefly presented intensive and successful scientific activity of Professor Dobrzański causes true admiration and even astonishment that it was all possible. One of the bases of these successes is the profound mathematical, mechanical and material science knowledge acquired by Professor Dobrzański during his first years of research activity. The second basis was certainly extraordinary cleverness and diligence of Professor Dobrzański. One must also add that he is very friendly and helpful in personal contacts which is undoubtedly returned to him and gives additional motivation for extensive work. At this point, we are obliged to pay tribute and express our thanks to the Professor's wife – Mrs. Teresa Dobrzański, because her support undoubtedly contributed to the accomplishments of her husband, which was also for the benefit of science in Poland and in the World community of materials, and particularly at the University of Miskolc.

I know personally Professor Dobrzański as internationally acknowledged scientist for more than 30 years. I met him at several international conferences many of them was even organised by him. His closer cooperation with the University of Miskolc started in 1991 when he signed the cooperation agreement between the Silesian University of Technology and the University of Miskolc as the Dean of the Faculty of Mechanical Engineering. This agreement was signed from the side of the University of Miskolc by Professor István Páczelt who was the Dean of the Faculty of Mechanical Engineering at that time. Since that time Professor Dobrzański visited Hungary many times and besides the University of Miskolc he had close contacts with other Hungarian universities and institutes among them the Budapest University of Technology and the Bay Zoltán Research Institutes.

Professor Dobrzański further developed the scientific collaboration between the Silesian University of Technology and the University of Miskolc, particularly with the Faculty of Mechanical Engineering. Professor Dobrzański paid several scientific visits at the University of Miskolc. He delivered lectures at seminars which initiated further collaborative works and

research projects. When visiting our university he delivered excellent lectures for the great benefit of all participants and particularly for young people. Our Institutes both in Poland and in Hungary mutually accept students within the Erasmus program regularly.

The academic community of the University of Miskolc highly esteems Professor Leszek A. Dobrzański as the eminent scientist and our true friend. We wish him many decades of good health and successful activities for the benefit of us all.

Thank you Professor Dobrzański.

Professor Miklós Tisza, DSc, PhD, Dr. Habil. Mechanical Eng.

Promoter for Honorary Degree

Miskolc, 24th June 2016