



IN MEMORIAM

PROFESSOR JERZY SIWKA
(1947-2022)

Prof. Dr.-Eng. habil. Jerzy Siwka, a distinguished scientist and great educator, died on July 10, 2022.

Professor Jerzy Siwka was born in 1947, he graduated from the Bolesław Chrobry High School in Gniezno in 1965, and then higher education at the AGH University of Science and Technology in Krakow in the field of metallurgy in 1971. In 1979 he then obtained his doctorate at the Czestochowa University of Technology in the discipline of metallurgy in the field of nitrogen alloying of liquid stainless steels. Then he obtained his postdoctoral degree at the same university in 1999. In 2007 he received the academic title of professor in the field of technical sciences.

He specialized in the theory of thermodynamics of liquid metallic alloys alloyed with nitrogen, physical modeling of metallurgical processes, including the use of thermal plasma. The aforementioned subject is closely related to the physicochemical foundations of heterophasic metallurgical processes, in particular with the development of assumptions for the production

of modern technologically and ecologically advanced steels containing large amounts of alloyed nitrogen (HNS steels). The second direction of research was the issues related to the recycling of metals from metallic waste and waste in which metals are combined with non-metallic materials, including toxic materials. The third important area of interest was the development of steel technologies with their implementation into industrial practice.

These research areas were successfully implemented and developed as the principal investigator of research projects financed by the Scientific Research Committee of the Republic of Poland. He completed research internships at the Institute of Metals Science and Technology of Metals of the Bulgarian Academy of Sciences and the Moscow Institute of Steel and Alloys. During the period of teaching and research, he was the supervisor of 65 engineering and master's theses and 6 defended doctoral theses. His scientific achievements include over 200 articles in journals and papers in the materials of foreign

and domestic conferences. He took an active part with papers at foreign conferences, incl. in the United States, Japan, Canada, China, South Korea, Germany, France, Spain, Italy, Great Britain, Belgium, Finland, Sweden, Austria, Russia, Ukraine, Slovakia and the Czech Republic. He was a member of international scientific committees of cyclical world conferences: “High Nitrogen Steels” – HNS “and” Processing & Manufacturing of Advanced Materials - THERMEC “many times.

As a reviewer, he participated in the procedure for awarding the academic title of professor of technical sciences 6 times, he gave opinions on habilitation theses 5 times and doctoral dissertations 7 times.

As part of co-operation with the industry, on the basis of a contract, incl. participated in the work for Zawiercie Plant (CMC Poland), Czestochowa Plant (Liberty Czestochowa), Katowice Plant (Arcelor-Mittal Poland), Warszawa Plant (Arcelor-Mittal Poland).

In the years 1999-2002 he was the vice-dean and then in the years 2002-2005 the dean of the Faculty of Process and Materials Engineering and Applied Physics at the Czestochowa University of Technology. He was a member of the senate of his alma mater for three terms. In the years 2005-2016 he was the head of the

Department of Metals Extraction and Recirculation. Elected member of the Metallurgy Committee of the Polish Academy of Sciences in the terms of 2003-2007, 2011-2015 and 2015-2019. He was appointed to the Committee for Environmental Protection and Waste Management of the Polish Academy of Sciences – Katowice Branch, where he was the vice-chairman. Member of the Scientific Council of the Institute of Metallurgy and Materials Science Aleksander Krupkowski of the Polish Academy of Sciences in the terms 2011-2014, 2015-2018.

In recognition of his teaching and scientific achievements, in 2002 he was awarded the Medal of the National Education Commission, and in 2004, the Knight’s Cross of the Order of Polonia Restituta.

Professor Jerzy Siwka was a precursor of the tradition of “Fitting for a Steelworker” and “Meetings under the ladle” at the Metallurgical Faculty in Czestochowa.

In the person of the Professor, we lost an outstanding scientist, a valued academic teacher and a long-time employee of the Czestochowa University of Technology.

Professor Jerzy Siwka was buried at the municipal cemetery at Junikowo in Poznan.