

**In memoriam:  
Professor Wiesław Gogół, 1927–2021**



Professor Wiesław Stanisław Gogół was born on 30th September 1927 in Kozienice. His father, Stefan Gogół, was a clerk; his mother, Maria Oficjal-ska, looked after the house. In 1933–1939, he attended the primary school in Kielce and then, during the Second World War the so-called clandestine schooling. He received his maturity certificate in July 1945 at the Blessed Kinga Middle and Highschool in Kielce. Also that year, he began studies at the Faculty of Mechanics of Lodz University of Technology, and in 1952 he graduated with a Master of Science degree. In 1952–1954, he worked in the Passenger Automobile Factory in Żerań (Warsaw), at first as a constructor, later as a shift manager at the Department of Tool Design. In 1954 he commenced aspirant studies (a former name of doctoral studies in the 1950's in Poland) under the supervision of Prof. Bohdan Stefanowski at

the Department of Thermal Energy, Polish Academy of Sciences to become a senior assistant there after two years. In October 1957, he received the position of senior assistant at the Warsaw University of Technology (WUT). In December 1960 he received his PhD diploma (PhD thesis completed under supervision of Prof. Bohdan Stefanowski) at the Faculty of Mechanical Design, WUT. In January 1971, he was appointed to the post of docent at the Institute of Heat Engineering, WUT. In 1982, the Council of State of the Republic of Poland awarded him the title of professor in technical sciences.

Professor Gogól's scientific activity initially concerned the issues of thermodynamics and heat transfer in fluid-flow machinery, and then his attention was shifted to the problems of heat transfer, in particular the ones related to heat conduction and methods of determination of thermal properties of solids. Many years devoted to that research resulted in developing some pioneering methods and creating laboratory research stations. In 1962, he initiated establishment of the Laboratory of Heat Parameters which was officially approved by the Rector of the Warsaw University of Technology in 1966 and later transformed into the Laboratory of Heat Conduction with him as the head of laboratory until his retirement in 1997.

Professor Gogól's research activity also concerned problems of heat conduction in binary systems with phase transition in one of the components, non-Fourier heat conduction (cases of large temperature gradients, fast changes of heat rate), issues of heat conduction in anisotropic media and composite materials and, which were discovered by him, heat conduction asymmetry in media of thermal conductivity dependent upon temperature. Theoretical research of the asymmetry effect was very time-consuming, and its confirmation could only be achieved in a laboratory with specialist equipment to measure heat transfer. Professor built such a laboratory with a lot of elements of his own design. The results of that research (conducted in 1969–1984) were published in *The Archive of Mechanical Engineering, High Temperatures – High Pressures, Archives of Thermodynamics* and presented during the 6th European Thermophysical Properties Conference.

Since 1978, Professor Gogól dealt with scientific issues (both theoretical and practical) related to renewable energy sources, global warming and solar technology, not only as a researcher, but also as a lecturer. He conducted research especially on heat transfer in solar collectors, heterogeneous media and transparent insulations, and since 1981 he gave pioneering lectures on solar technology which gathered wide audience of the university community. As a consequence, under his supervision there were completed 14 diplomas

and one doctorate study on solar technology. He was a supervisor of five PhD graduates of whom three are now full professors. Professor Gogól was an acclaimed lecturer responsible for the heat transfer curriculum at WUT. It was at his initiative and support that many didactic facilities, educational resources and items were developed, for example, two thermal solar collectors (built for research and didactic purposes) as well as the Laboratory of Heat Transfer.

Professor Gogól was the author of 2 textbooks – one of them used by students at many technical universities; the co-author of an academic textbook on heat transfer. He was the author of more than 80 scientific papers on heat transfer issues, especially heat conduction, and measurement of thermal properties, published in prestigious domestic and international scientific journals. He was the co-author and editor of the review on “Thermal conversion of solar radiation energy in domestic conditions” published by the Polish Academy of Sciences in 1993.

In 1970–1973 and 1986–1991, Professor Gogól was a deputy director of the Institute of Heat Engineering, WUT. In 1982–1987 he was a member of the WUT Senate. In 1977–1982 he held the position of editor in chief of *Archiwum Termodynamiki* and in 1982–1997 of *the Archives of Thermodynamics*, where since 1998 he was an honorary editor therein.

Professor Gogól held memberships in numerous scientific organizations, just to mention: Committee of Thermodynamics and Combustion (since 1978), Warsaw Scientific Society (since 1986), International Institute of Refrigeration (1984–1987), International Solar Energy Society ISES (since 1993), Polish Society of Biomechanics (since 1990), Polish Society of Theoretical and Applied Mechanics (since 1965). He was a founding member of Polish Association of Photovoltaics (since 1995) and its honorary member since 1997. He was one of the founders of the Polish Association of Solar Energy (since 1994). Apart from that, as a distinguished specialist, he took part in numerous conferences and symposia and was invited to participate in meetings of the Parliament and Senate Committees on renewable energy sources and ecology.

Professor Gogól was a recipient of many ministerial awards on science and education (1967, 1978, 1980, 1981, and 1985). He was awarded the Order of the Rebirth of Poland (1983), Gold Cross of Merit (1976), Medal of the Commission of National Education (1989) and the badge “Meritorious Service to the Warsaw University of Technology” (2005).

Professor Gogól was the authority in the WUT academic society and even after his retirement in 1997, he remained an active member of the

academia. He visited the Institute of Heat Engineering almost every day and shared his knowledge and expertise with other academics and students.

Professor passed away on 7th April 2021. The funeral ceremony took place on 15th April in the Church of the Most Holy Savior in Warsaw. The body of Professor Gogól was buried in a municipal cemetery in Antoninów (cemetery section 16 B-3-5).

Recollection on late Professor Wiesław Gogól was prepared by Prof. Tomasz Wiśniewski, courtesy of Mrs. Elżbieta Gogól.