

**IN HONOUR OF PROFESSOR JANUSZ MROCZKA  
ON THE OCCASION OF HIS 70TH BIRTHDAY**

**Professor Janusz Mroczka** PhD, DSc was born on April 27, 1952 in Dębica. In 1976 he graduated from Wrocław University of Science and Technology and his entire research career has been linked to his Alma Mater to this day. In 1980, he successfully defended his PhD thesis in technical sciences. In 1991 he obtained his habilitation degree and started working as an associate professor. He was honored an academic title of professor in 1996. In 2021 he was awarded the status of Professor Magnus by Wrocław University of Science and Technology. He has been a full member of the Polish Academy of Sciences since 2021.

The professor's scientific interests are related to the methodology of the cognitive process, algorithmization of the inverse problem, analytically ill-conditioned indirect measurements, analysis of the spectrum and polarization of scattered radiation in the description of the properties of dispersion systems, methodology of

combining measurement data with different spatial resolution with the use of deterministic and stochastic processing methods (data fusion), using time-frequency representations of signals in the processing of measurement data, developing methods of moments in the analysis of dispersion systems. In connection with his scientific activity, Professor Janusz Mroczka has published 449 publications, including 148 from the JCR list. He is also a co-author of 13 monographs (5 foreign, 8 domestic), 8 patents (4 implementations). He led (as an executive manager or a main contractor) 31 grants (including 7 international ones). In years 1991–1996 he was elected Director of the Institute of Electrical Metrology at Wrocław University of Science and Technology. In 1998 he founded the Department of Electronic and Photonic Metrology at Wrocław University of Science and Technology, which he has been managing until now.

The professor actively participates in the work of many organizations and committees. His activity includes:

- in years 2001–2007 he was the vice-chairman, and in years 2007–2015 the chairman of the Committee of Metrology and Scientific Apparatus of the Polish Academy of Sciences, of which he has been a member since 1993. During his presidency of the Committee on Metrology and Scientific Apparatus of the Polish Academy of Sciences, in 2014 the Committee was assessed as the best scientific committee of the Polish Academy of Sciences.

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- his organizational achievements from that period include the introduction of the Metrology and Measurement System journal to the JCR list. From 2013 to 2020 he was a member of the Central Commission for Degrees and Titles.
- a membership of the Interdisciplinary Measurement Section of the KBN – State Committee for Scientific Research (18 competitions, of which he chaired the Section in 6 editions).

Prof. Janusz Mroczka has been the supervisor of 26 doctoral dissertations (4 internationally supervised PhD degrees in France, all distinguished with the last one receiving the M. Skłodowska-Curie award as the best doctorate in a given discipline in Europe). Professor Mroczka has reviewed 3 honorary doctorates, 58 professor's applications (1 abroad), 56 habilitations, 22 doctorates, has chaired promotion procedures in 56 habilitations, and promoted over 200 graduates. The Professor's international recognition is evidenced by the fact that he is a member of many international organizations, including a permanent member of SPIE – the International Society for Optical Engineering (since 1992), a member of the International Technical Working Group on Penetrating Radiation, USA (since 1994), a member of the Polish Physical Society (since 1986) and that he was entrusted with organizing and co-chairing the International Symposium of Optical Applied Science and Engineering "Optical Diagnostics in Fluid and Thermal Flow", San Diego, USA (1993). He maintains scientific contacts with many research centers, including Rouen, Yokohama, Toronto, Preston, Marseille, Eindhoven, Berlin, Boston, San Diego, Rio de Janeiro, Buenos Aires, London, Padua, Lecce, Brussels, Tampere, Shanghai. He has received numerous awards and distinctions for his scientific and research activities, including the 2nd degree award of the Ministry of National Education (1989), the Award of the 4th Department of the Polish Academy of Sciences (1993), the FNP Professor's Subsidy for 2005, the Award of the Ministry of Science and Higher Education for Outstanding Achievements in Scientific and Didactic Care in 2014, the Award of the President of the Polish Academy of Sciences for 2015, the Prof. M. Suski Avard, the Professor Opoliensis Award in 2014, over 36 Awards of the Rector of Wrocław University of Science and Technology.

He has been awarded the Commander's, Officer's and Knight's Crosses of the Order of Polonia Restituta. He has received the Gold, Silver and Bronze Cross of Merit, Medal of the National Education Commission, Gold Badge of Wrocław University of Science and Technology with a diamond, Medal of Prof. Kazimierz Idaszewski, Medal of Prof. Włodzimierz Krukowski. He is on the 2020 and 2021 lists ranking the prestigious TOP 2% of the most influential people of science in the world. Many of his associates experienced the professor's kindness and selfless help.

The professor is a Honoris Causa Doctor of Lublin University of Technology (2014), Opole University of Technology (2017), Gdańsk University of Technology (2019), the Military University of Technology (2019), AGH University of Science and Technology (2021).