

ARWtr Janusz Turowski Award



Janusz Turowski, (1927 · Kowel, Poland during the interwar period/ Ukraine – 2020 · Lodz, Poland) PhD 1963, DSc 1958, MSc, electr. eng. 1951, Honorary Doctor (*Honoris Causa*) University of Pavia (Italy) 1998, worked as a full professor during 1964–2003 (retired 2003) in electrical machines, applied electromagnetics, and mechatronics. Since 1949, he has been with the Institute of Electrical Machines and Transformers (now Mechatronics and Information Systems 2003–), and as vice dean (1964–1969) and first vice rector (1990–1996) of the Technical University of Lodz (TUL) Poland. He also was as full professor and dean (1999–2010) in the Department of Intelligent Information Systems, Academy of Humanities and Economics (AHE)—Lodz. He is a full member of the International Academy of Electrotechnical Sciences (1999–), member of the Ukrainian Academy of Science, senior member of IEEE (1988–2001), and member of CIGRE-Paris (1964–2001).

Dr. Turowski graduated from TUL with an MSc degree and worked as an electrical engineer in 1951 and later was upgraded to a full professor (1978–). During the years 1973–1992, he was the director of the Institute of Electrical Machine and Transfer. Dr.

Turowski was president (1976–1982) of the Polish Association of Theoretical and Applied Electrotechnics-PTETiS, as well as a member (1978–1909) and the vice chairman (1999–2003) of the Electrical Committee Polish Academy of Science. He was an all-country coordinator of fundamental research in analysis and synthesis of electromagnetic fields (1980–1990), and the chairman (1979–2001) and honorary chairman (2001–) of biennial international symposia on electromagnetic fields in electrical engineering—ISEF. Professor Turowski was a member of the Polish Main Council for University Education (1990–1996) and honorary president (2004–) of the Polish UNESCO-UNISPAR Working Group Society.

He was also elected a member of the Council for European Education by the Minister of National Education (1996–1999) and Science Council of Technology Agency (1996–1997) and a member of the EC/PHARE Higher Education Steering Committee (1996–1997). In addition, he was a member of SEFI (1992–1996),

“Alliance Universities for Democracy”—USA (1992–1996), “International Compumag Society” (1996–2003), The New York Academy of Science (1994–1995), and UATI Administrative Board, Paris (1999–2002).

Dr. Turowski is the president of the Polish UNISPAR Working Group Society (1996–), and was coordinator of the EuroUNISPAR Network (2000–2005) and joint Baltic Sea Innovation Network BASIN (1999–2005), past editor in chief of the journal *Polish Innovation Market*, besides holding other positions.

Professor Turowski is the author or coauthor of about 310 publications, including 20 books and 35 chapters in joint books in Poland, the United Kingdom, the United States, France, Germany, Russia, China, India, Japan, NATO, and other countries; his works have been cited by other authors about a 1000 times, with more than 210 from abroad.

Turowski, co-author of joint publications of Polish–Italian–Indian–Spanish–Portuguese– Mexican teams including [K. Komeza](#), A. Pelikant, M. Turowski, [S. Wiak](#) (Poland), M. Rizzo, A. Savini, [P. Di Barba](#) (Italy), [S. V. Kulkarni](#) (India), [Xose M. Lopez-Fernandez](#) (Spain/Portugal), [J. Gieras](#) (USA), [J. Sykulski](#) (UK), and others.

Turowski is the author of *Technical Electrodynamics* (Warsaw 1968, 1993, Moscow 1974), *Electromagnetic Calculations of Elements of Electrical Machines and Devices* (Warsaw 1982, Moscow 1986), and *Fundamentals of Mechatronics* (Lodz, 2008).

He was the joint author and editor of *Analysis and Synthesis of Electromagnetic Fields* (Polish Academy of Sciences 1990), *Electromagnetic Fields in Electrical Engineering* (New York 1989, London 1990, 1992, 1994), joint author of *Computational Magnetism* (London 1994), *Modern Electric Drives* (NATO Science Series), *Engineering Electrodynamics. Electric Machine, Transformers, and Power Equipment Design* (CRC Press 2014), *Electric Machines* and others. He is also one of the main designers of big ELTA (ABB) Transformer Works.

Dr. Turowski is a consultant in transformers and electric machine works in Poland, China, India, Australia, the United States, Canada, and other countries. He has lectured in universities and companies in Italy, the United States, the United Kingdom, Japan, Russia, China, India, Spain, Portugal, Australia, Germany, Brazil, and other countries. He has supervised 18 PhD and 3 DSc candidates successfully and authored 450 referee opinions.

Turowski was a member of approximately 30 international steering committees of conferences in China 3, Japan 2, Turkey 3, India 2, Russia 4, the United Kingdom 2, Italy 2, Romania 2, Hungary, Australia, PHARE, Greece 2, Algeria, Poland 10, and Spain ARWtr (many times).

Turowski was the chairman and as well as a member of the editorial boards of *Rozprawy El.* (1975–1987) and a member of the *Archives of Electrical Engineering* 1988–1996 of the Polish Academy of Science; international scientific journals *Electromotion* and *Australasian Journal of Engineering Education*; and of the ARWtr International Technical Committee and ICEM4 editorial board.

Turowski is the recipient of State Crosses “Polonia Restituta” (1973) and a higher rank (1991). He is also a honorary recipient of “Medaglia Teresiana” (1998) and “Volta Silver Medal” from the University of Pavia, Italy (1999). Turkowski is an honorary member of the Polish Association PTETiS (1986), honorary chairman of ISEF (2001), and he has received 20 scientific and organizational awards from the Minister of Higher Education. He received the 2009 State Cross of the Exiles of Siberia (from the former President Lech Kaczynski) Nr 9-2009-157.

Professor Turowski received the 2010 medal for 30-year participation in the action in the Independent Self-Governing Trade Union “Solidarity” and fidelity to his ideals and others. He received the 1st Award of Polish Federation Technical Societies, the “Technology Master ‘2001” award for Program RNM-3D applied in over 44 transformer works and research centers all over the world. He received medals from Polish Electricians Association (SEP) for merits in the domain of Transformers and Power Systems. In 2004, he received the Silver Medal from the International Academy of Electrotechnical Sciences “For a prominent contribution to the development of world science, education technology and international cooperation.”