

## In Memoriam

### Professor Eugeniusz Jan DANICKI



1942 – 2016

Professor Eugeniusz Danicki, a distinguished academic teacher, outstanding specialist in the theory and application of acoustic waves and electronics, passed away on 11 September, 2016.

Professor Eugeniusz Danicki was born on the 1st January 1942. After graduation from the Military University of Technology (MUT) in 1964, he started educational and scientific work under guidance of Prof. Sylwester Kaliski. He completed his PhD studies in 1969, and did his postdoctoral thesis in 1976. Till the year 1981 he was a head of the Physical Acoustic Department of the Chemistry and Technical Physics Faculty of MUT. From 1982 to 1984 he was an associate professor at the Industrial Telecommunication Institute and then a head of the Theory of Electromagnetic Waves Section at the Institute of Fundamental Technological Research of the Polish Academy of Sciences (IFTR PAS). He was long-standing member and later from 2007 to 2010 a chairman of the Scientific Council of IFTR PAS. He was appointed full professor in 1991.

He gave lectures on the Vibration Theory at MUT and on Microwave Acoustics at Warsaw University of Technology as well as lectures and seminars for doctoral students at IFTR.

He promoted 9 doctors who became continuators of his scientific activity in Poland.

Professor Danicki was the author of more than 200 papers and scientific reports in leading international journals and conference papers on microwave acoustics which was his specialization and in which he achieved considerable scientific position in the world. He was outstanding specialist in the theory and application of acoustic waves.

His main scientific-technical achievement refers to ultrasonic technique in a range of sub-systems with a surface wave for telecommunication and radiolocation (recently also for non-invasive material investigations – theory of comb transducer) where he elaborated a few of modern technical solutions. His significant achievement for radiolocation was elaboration of a dispersive delay line with a surface wave, implemented into pro-

duction and applied in modern (in those times) radiolocation stations with pulse compression. His, so-called, spectral theory of interdigital transducers resulted in modern construction of a dispersive line with periodic electrodes (subsequent one implemented into production) which is commonly used in the world. Similarly, a common construction is the proposed and verified construction of a resonator with metal reflectors. These and further works situated MUT research team at leading position on sub-assemblies with a surface wave in the world. His further works referred mainly to theoretical problems, however, in 1998 he undertook individual elaboration of a broadband dispersion line for the PIT-RADWAR S.A.

He received many ministerial (the Ministry of Defense) awards, PAS awards, the Team State and the Award of Champion of Technology (during his work at IFTR).

He was very nice and helpful person but at the same time he was very demanding of himself and of others.

Professor Danicki for years was associated with the editorial Staff of Archives of Acoustics being its Editor-in-Chief between 1988 and 1991.

*Prof. Eugeniusz Kozaczka*

*Prof. Adam Kawalec*

*Prof. Andrzej Nowicki*