

## **Curriculum Vitae: Piotr Zbigniew Pręgowski**

received his Electronics MS degree from Military University of Technology (MUT), Faculty of Electronics in 1970; later, from the same Faculty, he received Ph.D. in Optoelectronics in 1985. He was an employee in MUT, in the Institute of Optoelectronics up to 1990. During his employment in MUT, he occupied the following posts: senior constructor, senior assistant, and senior lecturer and co-creator and leader of IRT department. In that time he was responsible, on the merits of the case, for numerous R&D and designing projects in the field of IR imaging and thermography, which were realized for civilian, military and INTERCOSMOS needs. As far as his didactic work is concerned, he elaborated and led lectures and laboratory experiments in the following subjects: “Thermographic Systems and Apparatus”, “Optoelectrical Metrology - Thermography” and “Infrared Technology”. He was a supervisor of several masters’ theses, the scientific supervisor of exceptional students and protector of OE Scientific Circle for students. He had similar lectures in many other universities, including post-graduate studies. Although he was highly reputed worker of MUT with the rank Lieutenant- Colonel and Assistant Professor, he decided to dissolve contract with the army and MUT and go to the military retirement since end of November 1990.

Since December 1990 the only place of his employment is his sole company PIRS, Pręgowski Infrared Services, i.e. firm established as one of the first, after changing the Polish political system, private companies operating in the area of consulting and other services in the field of IR imaging and measurements. Through PIRS he had the pleasure to serve more than 120 commercial customers (many of them from the list of 100 largest companies in Poland) research and educational centres, as well as government institutions. Initially in terms of his activities were mainly thermographic surveys with camera in hand, then the various training courses for thermographers (level I and II) fitted to their real needs as well as various research projects or lectures carried out periodically. His scientific interest concerned application of IR thermography for buried mines detection, application in coal mines, and lastly exploration of IR dynamic multispectral camera use for increasing efficiency of petrochemical furnaces. He is an author and co-author of over 125 papers, in half presented outside of Poland, mainly during SPIE conferences, where during ThermoSENSE conferences he was awarded for the outstanding papers in 1999 and 2005 (The Kantsios Award). Majority of his R&D projects concerned IR imaging application for underground mines detection and IR thermographic measurements using dynamic methods in petrochemical industry. He also co-authored 4 patents with the last one (industrially applied: “method of the heat exchanger tubes measurements -through flames- in the process furnaces”) in 2007 awarded by the foreign (Geneve-EU and Russia) as well as a few national organizations.

As a passionate of IR technology he is still very active in national and international communities. In 1992 he organized national association for thermographers and began to organize and lead regular national conferences on IR thermography and thermometry: Termografia i Termometria w Podczerwieni (TTP), which now gained truly international status, bring a very large turnout and score high marks for professionalism. He was elected to be a member of many Polish associations as e.g. Optoelectronics Section in Committee of Electronics and Telecommunications of the Polish Academy of Sciences, (1992-95); Presidium of Polish Committee of Optoelectronics of Association of Polish Electrical Engineers in which he was elected as a chairman of Working Group "Optoelectronics Thermo-detection" (1990-1998). He was a member of SPIE Polish Chapter since 1991 to 2008, when transformed to Photonics Society of Poland, which he is still a member. Since 2012 he is a member of the Main Board of POLSPAR (the Polish Association for Measurements, Automation and Robotics). For his professional contribution to the Polish OE community he was awarded gold medals (Gold Cross of Merit, Gold Badge of Association of Polish Electrical Engineers) and others. Carrying out his mission of support for the Polish community, he is an active participant of many international conferences and meetings of experts and scientists. He was elected to be a member of a few foreign organizations, conference program committees serving several times as chairman of many sessions. Between 1992-1998 he served as a Polish representative of Working Group of QIRT - European conferences on Quantitative IR Thermography. In 1999 he was nominated as a member of Working Group No.5 part of European Federation for NDT, in 1997 Program Committee of International Workshop on Advances in Signal Processing for NDE Materials, in 2004 Program Committee of SPIE DSS ThermoSense, in 2005 SPIE Detectors and Associated Processing. He was nominated to be a member of advisory board of "OPTO-ELECTRONICS REVIEW" (1995-97) and many times he was asked to be a reviewer for: SPIE Optical Engineering and SPIE Journal of Electronics, as well as ASNT NDT handbook, QIRT Journal, Advances in Optical Engineering, American Association for Science and Technology (AASCIT): Engineering and Technology, and Photonics Letters of Poland.

Through his company PIRS he is very active in the field of cooperation with foreign companies: exclusive representative or consultant of: EEV-UK(1992-94); CEDIP-France(1992-97), ELECTROPHYSICS -USA (1992-97); ULIS-France(since 2004- ); SOFRADIR-France (since 2006-), helping to popularize IR cameras applications and manufacturing industry in Poland.