



Jan Krynski, IUGG Fellow

POLAND

Dr. Jan Krynski is a full professor at the Institute of Geodesy and Cartography (IGiK) in Warsaw. He graduated in 1967 at the Faculty of Geodesy and Cartography of the Warsaw University of Technology with a degree of engineer and master of science in geodesy. He started his research carrier in 1968 at the Department of Geodesy and Geodetic Astronomy of the Institute of Geophysics, Polish Academy of Sciences. Simultaneously he studied mathematics in 1968–1971 at the University of Warsaw. In 1976 he completed his PhD thesis “Analysis of selected theories of motion of artificial Earth satellites in the aspect of geodetic applications” and received the PhD degree in physical sciences. In 1977 he moved with the whole department to the newly established Space Research Centre of the Polish Academy of Sciences where he was conducting a pioneering research on the use of satellite gradiometry and satellite-to-satellite tracking. He earned his DSc in technical sciences at the Faculty of Geodesy and Cartography of the Warsaw University of Technology presenting the thesis „Possibilities of low-low satellite tracking for local geoid improvement”. From 1998 he is a head of the Department of Geodetic Astronomy and later the Centre of Geodesy and Geodynamics at IGiK. In 2004 he was granted a title of Professor in technical sciences by the President of the Republic of Poland.

Dr. Jan Krynski was a visiting scholar in numerous superior research centres of Austria, Canada, Finland, Soviet Union, USA, – all together over 5 years – and participated in 10 international schools dedicated to advanced problems in geodesy. He also lectured at numerous universities: University of Washington, Seattle, USA (1987–1988); University of Calgary, Canada (1988–1991); University of Natal, Durban, South Africa (1992–1997); University of Warmia and Mazury, Olsztyn, Poland (1998–2007); Agriculture Academy, Wroclaw, Poland (2004–2005); Higher School of National Economy, Kutno, Poland (2007–2009).

His research interest covers wide spectrum of problems related to geodesy, gravimetry, geodynamics, reference systems, geodetic surveying, celestial mechanics, numerical methods, and computing techniques. In particular, it concerns computing satellite orbits, use of satellite systems in navigation and precise positioning, use of satellite-to-satellite tracking and satellite gradiometry in geodesy, gravity field modelling, geoid determination, geodetic data processing including time series of gravity data and GNSS solutions and their interpretation. Recently his research focuses on temporal variation of gravity field and gravimetric metrology.

Since the mid of 1970, Dr. Jan Krynski is involved in activities of major national and international scientific organizations, being in particular a chair of the Finance Committee of IUGG, assistant secretary of the International Association of Geodesy (IAG), fellow of IAG, member of numerous working groups and study groups of IAG, chair of the Polish National Committee for IUGG, chair of the Committee on Geodesy of the Polish Academy of Sciences (PAS), scientific secretary of the Committee on Space Research PAS, chief-editor of the Geodesy and Cartography journal of the Committee on Geodesy PAS, chief-editor of the Geoinformation Issues journal of IGiK, editor of the Polish Astronomical Almanach, chair of the research council of IGiK, and deputy chair of the research council of the Institute of Geophysics PAS.

Honors/awards

- 1979 Special Prize of the Scientific Secretary of the Polish Academy of Sciences for scientific achievement in research on satellite gradiometry.
- 1994 Award "Excellence in Teaching" of the University of Natal, Durban, South Africa.
- 2003 Honorary Medal „For Merit to Geodesy and Cartography”.
- 2004 Award of the Minister of Infrastructure for completing the project on application of new definitions of reference systems for determination of Earth rotation parameters and determination of global geodetic reference systems.
- 2005 Gold Cross of Merit.
- 2007 Distinction of the Minister of Construction for research supervision of two PhD theses.
- 2017 Award of the director of IGiK for very high evaluation of scientific achievements in 2012–2015