

## Obituary for Prof. Dr. Hab. Marcin Barlik. Two years death anniversary

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Professor Marcin BARLIK,  
Well-deserved for the Military University of Technology  
Doctor Honoris Causa, University of Agriculture in Krakow



Fig. 1. Prof. Marcin Barlik

Professor Marcin BARLIK was a specialist in the field of physical geodesy, higher geodesy, and geodesic gravimetry. He was born on November 11, 1944 in Bydgoszcz, where he obtained a high school diploma at the Geodesic Secondary School in 1963. He graduated from the Faculty of Geodesy and Cartography of the Warsaw University of Technology in 1968 achieving M.Sc. degree in land surveying, he worked there as an assistant in 1968–1978.

Based on the doctoral dissertation on “The Issue of Gravimetric Reductions for the Study of Real Vertical Deviations in Mountain Areas”, the Council of the Faculty of Geodesy and Cartography of the Warsaw University of Technology awarded him a Ph.D. degree in technical sciences in 1976. In 1978–1979 he lectured as an associate professor at the University of Baghdad (Iraq), College of Engineering, Surveying Department and worked as a scientific adviser to the Polservice – Geocart in Iraq.

He was appointed assistant professor at the Institute of Higher Geodesy and Geodesic Astronomy of the Warsaw University of Technology in 1979 and as associate professor in 1983.

Having passed the habilitation colloquium in 1983, he achieved the post-doctoral degree in the field of technical sciences in the discipline of geodesy and cartography. The dissertation title “The concept of using a smoothed quasi-geoid in the process of reducing geodesic and astronomical observations”. He then lectured at the L’Institut Cartographic National, Algeria (1984).



Since 1972, he worked at the Military University of Technology in the faculties of the Military Engineering and Geodesy; the Civil Engineering and Geodesy; the Engineering, Chemistry and Applied Physics as well as in the Civil Engineering and Geodesy as: senior assistant, assistant professor, associate professor, and professor.

At the proposal put forward by the Council of the Faculty of Geodesy and Cartography of the Warsaw University of Technology, the President of Poland awarded him the title of professor in the field of technical sciences on February 28, 1995. He was promoted to the position of associate professor in 1996, and to the position of professor of the Warsaw University of Technology in 2001.

He was an active member of the Geodesy Committee of the Polish Academy of Sciences: Geodesy Networks, Earth Dynamics, Navigation since 1978. He took part in a 3-month scientific internship at the Moscow Institute of Engineers of Geodesy, Photogrammetry and Cartography in 1984; a 1-month at the Royal University of Technology, Division of Geodesy, Stockholm, Sweden in 1985; a 1-month at the Dresden University of Technology in 1986; and a 1-month at the Czech Technical University in Prague, Czechoslovakia in 1988.

Professor Marcin Barlik was the thesis supervisor in numerous proceedings resulting in achieving doctoral degrees (Tomasz Olszak, Ph.D., Ziad Farai, Ph.D., Jerzy Nawrocki, Ph.D., Adam Weintrit, Ph.D. and Andrzej Sas, Ph.D.), the reviewer of several doctorates and postdoctoral degree applications, the opinion maker in many proceedings for conferring the title of professor and in procedures for promotion to the positions of associate professor and professor.

Functions he performed:

- 1983–1991 – Deputy Director of the Institute of Higher Geodesy and Geodesic Astronomy, Warsaw University of Technology;
- 1991–1996 and 2002–2008 – Vice Dean for Scientific Affairs of the Faculty of Geodesy and Cartography of the Warsaw University of Technology;
- 1996–2008 – Senator elected by the Warsaw University of Technology;
- 2005–2008 – Chairman of the Personnel Committee of the Warsaw University of Technology Senate;
- 2008–2012 – Head of the Department of Higher Geodesy and Geodesic Astronomy at the Faculty of Geodesy and Cartography of the Warsaw University of Technology;
- 1997–2001 – Deputy Chairman of the Earth Dynamics Section of the Geodesy Committee of the Polish Academy of Sciences;
- 2006–2018 – Deputy Chairman, Chairman and member of the Geodesy Committee of the Polish Academy of Sciences (see Figure 2);
- 2009–2015 – Chairman of the Committee of Geodesy of the Polish Academy of Sciences;
- 2004–2016 – Member of the Central Commission for Scientific Degrees and Titles – this is a unique distinction by election, reflecting great authority in the scientific community;
- from 2002 – Chairman of the Scientific Section of Higher Geodesy of the Association of Polish Geodesists NOT;

POLSKA AKADEMIA NAUK  
 Wydział IV Nauk Technicznych

Warszawa, 8 lutego 2016 r.

**Pan**

**Profesor dr hab. inż. Marcin BARLIK**  
 Politechnika Warszawska

Powołuję Pana Profesora  
 w skład **Komitetu Geodezji PAN**  
 na czteroletnią kadencję do dnia 7 lutego 2020 roku.

*Jednocześnie wyrażam głębokie przekonanie, że aktywny udział Pana Profesora w pracach Komitetu w pełni przyczyni się do rozwoju nauki, a dla Pana będzie źródłem zawodowej satysfakcji.*



Antoni Rogalski  
 Dziekan

Fig. 2. Professor Antoni Rogalski – the Dean of the IV Faculty of Technical Sciences of the Polish Academy of Sciences – appointed professor Marcin Barlik to the Geodesy Committee of the Polish Academy of Sciences in 2016. Above the appointment act

- 1998–2007 – Member of the Geodesy and Cartography Section and the Presidium of the Awards Committee of the successive ministers covering the activities of the Main Office of Geodesy and Cartography.

Professor Marcin Barlik personally included the following to his most important professional achievements:

- adoption of the African Geodesic Continental Network (AGCN) concept for implementation – 2<sup>nd</sup> Symposium on Geodesy in Africa, 1981 (co-author of the concept);
- development of the first modernization of the Gravity Control of Poland (POGK'97), 1997 (co-author);
- development of the second stage of modernization (since 2006) of POGK'06 (co-author);
- expert opinions on basic geodesic controls for the Main Office of Geodesy and Cartography (co-author);
- preparation of several opinions for the Minister of Construction (Infrastructure, formerly Spatial Management) regarding ministerial awards in the field of geodesy and cartography.

Characteristics of his publishing activities:

- over 90 reviewed articles in the field of physical geodesy, geodynamics and geodesic gravity published in national magazines: in the Polish Academy of Sciences KG quarterly *Geodezja i Kartografia*, *Acta Geophysica Polonica*, *Reports*

on *Geodesy* – publishing house of the Warsaw University of Technology and *Przegląd Geodezyjny* – monthly magazine of the "Sigma" NOT publishing house and in *Geodeta* – geoinformation magazine;

- several articles in the field of geodynamics and physical geodesy in foreign – German and English language – scientific publishers, such as: *Acta Geodynamica et Geomaterialia* (formerly *Acta Montana*);
- over 25 scientific communications on the General Assemblies of the Union of Geodesy and Geophysics;
- over 25 scientific communications, posters and papers at the European Union of Geophysics congresses and then (since 2006) European Geosciences Union;
- over 10 papers at the International Lohrmann Colloquium of the Astronomy and Physics of the Earth, organized by the Dresden University of Technology (Germany);
- authorship and co-authorship of 3 academic textbooks and 4 academic scripts in the field of: geodesic geophysics, physical geodesy, geodesic gravimetry (Figure 3).

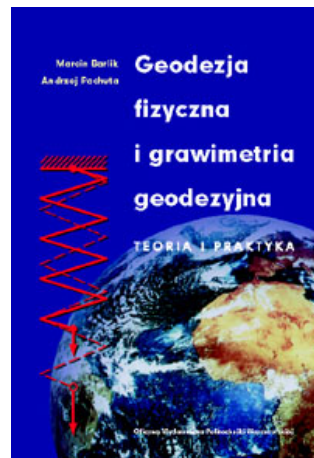


Fig. 3. Scans of the covers of scientific monographs: Marcin Barlik *Gravimetric Measurements in Geodesy*, Publishing House of the Warsaw University of Technology, Warsaw 2001 (left); and Marcin Barlik and Andrzej Pachuta *Physical Geodesy and Geodesic Gravimetry. Theory and Practice*, Publishing House of the Warsaw University of Technology, Warsaw 2007 (right)

Major awards: 2 awards for scientific achievements from the Ministers of Science, Technology and Higher Education and National Education; 14 awards for scientific and didactic achievements from the Rector of the Warsaw University of Technology.

Decorations: Medal of the National Education Committee (2000), Knight's Cross of the Order of Polonia Restituta, Golden Cross of Merit; Medals for Merits for: the Military University of Technology; the Warsaw University of Technology; the Hugo Kołłątaj University of Agriculture in Krakow; the Faculty of Engineering, Environmental Sciences and Geodesy at the University of Life Sciences in Wrocław and the Bronze Badge of Merit for the Association of Polish Geodesists.

At the proposal put forward by the Dean of the Faculty of Civil Engineering and Geodesy of the Military University of Technology, the Chapter of Honorary Awards of the Faculty awarded Professor Marcin Barlik with the Medal of Merit for the Faculty of Civil Engineering and Geodesy in 2014 (Figure 4).



Fig. 4. Medal of Merit for the Faculty of Civil Engineering and Geodesy of the Military University of Technology, design by Alicja Karwowska & Jacek Szczygłowski (Photo by courtesy of the Faculty of Civil Engineering and Geodesy)

On his 45<sup>th</sup> anniversary of work at the Warsaw University of Technology, Professor Marcin Barlik received this special distinction from Professor Ireneusz Winnicki, the Dean of the Faculty of Civil Engineering and Geodesy of the Military University of Technology in the presence of Professor Jan Szmidt – the Rector of the Warsaw University of Technology, Professor Alina Maciejewska – the Dean of the Faculty of Geodesy



Fig. 5. Professor Alina Maciejewska – the Dean of the Faculty of Geodesy and Cartography of the Warsaw University of Technology congratulates Professor Marcin Barlik. On the right – Professor Jan Szmidt – the Rector of the Warsaw University of Technology. (Photo by courtesy of the archives of the Warsaw University of Technology)



and Cartography of the Warsaw University of Technology (Figure 5) and numerous students, doctoral students, foster children, colleagues and friends.

On the Military University of Technology's Day, November 29, 2014, Professor Marcin Barlik received the Gold Medal of Merit for the Military University of Technology (Figure 6) from the Rector-Commander General Professor Zygmunt Mierczyk (Figure 7).



Fig. 6. Gold Medal of Merit for the Military University of Technology (Photo by courtesy of MUT)



Fig. 7. General Professor Zygmunt Mierczyk – Rector-Commander of the Military University of Technology – awards Professor Marcin Barlik with the Gold Medal of Merit for the Military University of Technology (Photo by courtesy of MUT)

A year later, on November 6, 2015, Professor Marcin Barlik was awarded the title of Doctor Honoris Causa of the Hugo Kołłątaj University of Agriculture in Krakow. This ceremony was attended by his pupils, collaborators and numerous friends of the Winner of this highest academic dignity.

Professor Marcin Barlik died on March 22, 2018.