



## **prof. Wolfgang Keller**

University of Stuttgart (2018)

Professor Wolfgang Keller was born in 1953 in Brand-Erbisdorf (Saxony), Germany. He graduated from high school with distinction and studied mathematics at the Dresden University of Technology from 1972 to 1976, where he also graduated with distinction. He began his career as a research assistant at the Dresden University of Technology (1976–1983), where he also defended his doctoral dissertation with magna cum laude in 1981. He then undertook a research internship at the Prague University of Technology in the Department of Geometry (1983–1984). After returning to Dresden, he resumed his position as a research assistant (1984–1990) and received his habilitation in 1985. Both his doctorate and habilitation focused on determining the orbits of artificial Earth satellites. From 1990 to 1991, he was a Humboldt Foundation Fellow at the University of Stuttgart. Since 1991, he has been heading the Department of Physical and Satellite Geodesy at the University of Stuttgart.

He has worked as a visiting professor at the following universities: University of Queensland, Brisbane, Australia (2003–2005), Curtin University, Perth, Australia (2006), University of Calgary (2005 and 2008), National Cheng Kung University, Tainan, Taiwan (2012, 2014), and State Aerospace University Ufa, Russia (2017).

For his scientific work, he was awarded the Lessing Medal in 1972. In 1985, he received the Scientific Award of the Dresden University of Technology, and in 1990, he received a research grant from the Alexander von Humboldt Foundation. The Australian Research Council awarded Professor Keller the International Award in 2003. In 2009, he was elected a member of the International Association of Geodesy, and the following year, he received the medal "For Merits to the Faculty of Environmental Engineering and Geodesy of the Wrocław University of Environmental and Life Sciences."

Professor Keller has an impressive publication record, with 36 articles in peer-reviewed journals indexed in the Web of Science, 18 articles in non-peer-reviewed journals, 43 conference materials, 2 textbooks, 5 book chapters, and 8 technical reports.

At the University of Stuttgart, he teaches courses in mathematics, numerical methods, digital signal processing, physical geodesy, satellite geodesy, and geodetic reference systems. As a visiting professor, he has taught courses in wavelet analysis in Earth sciences (University of Calgary), digital signal processing using wavelet analysis (Curtin

University), geostatistics (University of Tainan), and satellite mutual tracking (University of Ufa). At the Wrocław University of Environmental and Life Sciences, he taught courses in digital signal processing and wavelet analysis.

From 1992 to 1994, Professor Keller was a member of the Scientific Council of the Special Research Area "Precise Navigation" at the University of Stuttgart. At his home university, he served as Vice Dean of the Faculty of Civil Engineering (1994–1998) and Dean for Teaching at the Faculty of Aerospace and Geospatial Engineering (2004–2008, 2012–2017). In his international scientific activities, he chaired the IAG Special Research Groups "Geodetic Boundary Value Problems" (1999–2003) and "Wavelet Analysis" (2003–2007). Since 2011, he has been on the editorial board (section editor) of the most prestigious journal in the field of geodesy, the "Journal of Geodesy." He was the managing director of the F2GeoS Society in Stuttgart (1999–2017) and has been the treasurer of the Württemberg Disabled Sports Association since 1999.

Professor Keller has led eight research projects under the DAAD (German Academic Exchange Service), including four in Taiwan, three in Poland (in cooperation with UPWr), and one in Russia. He has also managed eight additional projects under the DFG (German Research Foundation) and two projects under the Australian Research Council.

Professor Keller has collaborated with industry: from 1994 to 2002 with Intermetric GmbH in Stuttgart, and from 2006 to 2012 with Thales Group in Ditzingen.

At the Wrocław University of Environmental and Life Sciences, he worked on a sabbatical leave in 2010. During this period, he significantly contributed to the development of scientific staff at the Institute of Geodesy and Geoinformatics. He conducted advanced courses for doctoral students and provided scientific consultations for staff. This collaboration resulted in two doctoral theses and prestigious international postdoctoral internships at renowned universities. Several joint publications were produced, including those published in the "Journal of Geodesy," and three bilateral scientific projects were completed. Professor Wolfgang Keller is the initiator of educational collaboration with the Faculty of Environmental Engineering and Geodesy. Thanks to his support, several graduates of "geodesy and cartography" from our faculty were admitted to the international master's program at the University of Stuttgart under the "Geoengine" program.