

Prof. Dan Fleisch short biography

Dan Fleisch is Professor Emeritus in the Department of Physics at Wittenberg University, where he specializes in electromagnetics and space physics. He is the author of the internationally best-selling book *A Student's Guide to Maxwell's Equations*, published by Cambridge University Press in January 2008 and translated into Japanese, Korean, Italian, and Chinese. Dr. Fleisch is also the author of *A Student's Guide to Vectors and Tensors*, published by Cambridge Press in 2011, co-author of *A Student's Guide to the Mathematics of Astronomy*, published in 2013, and *A Student's Guide to Waves*, published in 2015, and author of *A Student's Guide to the Schrödinger Equation*, published in 2020, and *A Student's Guide to Laplace Transforms*, published in 2022. Dr. Fleisch is also the co-author with the late Prof. John Kraus of The Ohio State University of the McGraw-Hill textbook *Electromagnetics with Applications*. Prof. Fleisch was named Series Editor for the Student's Guide Series at Cambridge University Press in 2018.



Prof. Fleisch has published technical articles in the *IEEE Transactions*, *The Journal of Atmospheric and Terrestrial Physics*, and *Microwave Journal*, and has presented more than a dozen professional papers on topics related to high-speed microwave instrumentation and radar cross-section measurement. He has been a regular contributor of science commentary to PBS station WYSO of Yellow Springs, and in 2006 he appeared in the documentary "The Dayton Codebreakers" shown on Public Television. In 2009 he was the first U.S. citizen to receive an Arthur Award from Stuart McLean of the Canadian Broadcasting Corporation.

Prof. Fleisch was named Outstanding Faculty Member at the Wittenberg Greek scholarship awards in 2000, and in 2002 he won the Omicron Delta Kappa award for Excellence in Teaching. In 2003 and 2005 he was recognized for Faculty Excellence and Innovation by the Southwestern Ohio Council for Higher Education (SOCHE), and in 2004 he received Wittenberg's Distinguished Teaching Award, the university's highest faculty award.

In November of 2010 Prof. Fleisch was named the Ohio Professor of the Year by the Carnegie Foundation and the Council for the Advancement and Support of Education, and in August of 2013 Prof. Fleisch was named one of the Top 25 Science, Technology, Engineering, and Mathematics (STEM) Professors in Ohio.

In 2022, Prof. Fleisch was selected to serve as the Grand Canyon Astronomer in Residence for six weeks. During his Residency, Prof. Fleisch gave 21 presentations on different astronomical topics, each followed by an observing session consisting of a night-sky tour as well as electronically assisted telescopic observing. Through his presentations, observing sessions, and other activities, Prof. Fleisch reached over 3,000 Park visitors during his Residency. Prof. Fleisch was invited back to the Grand Canyon in August of 2023 to hold a series of daytime solar observing sessions and evening presentations; during this 2.5-week visit he reached over 4,000 Park visitors.

In 2023, the International Astronomical Union (IAU) honored Prof. Fleisch's teaching, writing, and outreach efforts by naming a main-belt asteroid (17037) Danfleisch.

Prof. Fleisch received his B.S. in Physics from Georgetown University in 1974 and his M.S. and Ph.D. in Space Physics and Astronomy from Rice University in 1976 and 1980, respectively.