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Werner Alpers studied physics at the University of Hamburg (Germany), Zurich (Switzerland), and Madison, Wisconsin (USA). In 1967 he received the Ph.D. degree in theoretical physics from the University of Hamburg.

Since 1973 he has been engaged in microwave remote sensing of the ocean by using laboratory, airborne and spaceborne sensors as well as theoretical models. Dr. Alpers was a Principal Investigator for the Seasat, Shuttle Imaging Radar, ERS and Envisat missions. From the beginning, he has been involved in the European ERS-1, ERS-2, and Envisat satellite projects as a scientific advisor to the European Space Agency. In 1999 he was the General Chairman of the 1999 IEEE Geoscience and Remote Sensing Symposium (IGARSS'99) in Hamburg, Germany

Dr. Alpers has authored or co-authored more than 100 papers in peer reviewed journals and books dealing with different aspects of microwave remote sensing of the ocean. He was the first to explain how ocean surface waves, underwater sand banks and internal waves are imaged by SAR.

In 2001 he received the "2001 Distinguished Technical Achievement Award" of the IEEE Oceanic Engineering Society".

Dr. Alpers is now a Professor emeritus of the University of Hamburg and since 1999 a Visiting Professor at the Ocean University of China in Qingdao.