# Short CV

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## Hans U. Fuchs

Hans Fuchs studied physics at ETH Zurich and Rensselaer Polytechnic Institute in Troy, NY, before working in industry. Starting in 1983, he joined Zurich University of Applied Sciences at Winterthur (ZHAW) as a lecturer of physics and then as professor of physics and systems design (since 1986).

After retirement in 2017, he joined the faculty at the Free University of Bozen (UniBz) as a lecturer in Primary Physics Education. Starting in 2019, he has been teaching lectures and laboratories in Primary Physics Education for future kindergarten and primary school teachers. In recent years, he was a research assistant at UniBz involved in several EU projects having to do with physics education.

His recent work encompasses physics education research, development of learning environments, cognitive linguistics and theory of narrative in science. Applications of his work are in science education, thermodynamics and thermal design with applications in solar energy engineering, and modeling of natural and technical dynamical systems. He has published extensively in these fields.

He is the author of *The Dynamics of Heat, A Unified Approach to Thermodynamics and Heat Transfer* (Graduate Texts in Physics, 2nd ed., Springer, New York, 2010), *Modeling of Uniform Dynamical Systems* (Orell Füssli, Zürich, 2002) and coauthor of *Physik – ein systemdynamischer Zugang* (3. Auflage, h.e.p. verlag, Bern, 2010). He is the co-author, with Prof. F. Corni of UniBZ, of *Primary Physical Science Education – An Imaginative Approach to Encounters with Nature* (2023), and coauthor with G. Ecoffey of *Physique — Une présentation systémique* (EPFL Press, 2024). Plus a large number of peer reviewed papers and book chapters on physics, thermodynamics, cognitive science, and science education.