

# Curriculum Vitae

## Werner K. Schmutz

Prof. Dr. sc. nat.

Function Director PMOD/WRC  
Nationality Swiss citizen  
Date of birth August 29, 1952 in Zürich, Switzerland  
address PMOD/WRC, Dorfstrasse 33  
CH-7260 Davos Dorf, Switzerland  
Phone +41 81 417 51 11, FAX +41 81 417 51 00  
E-mail werner.schmutz@pmodwrc.ch



## Education

1959 – 1979 Basic education  
1974 – 1979 Studies of physics at the ETH Zürich  
1979 – 1983 Ph.D. student at the Institute of Astronomy, ETH Zürich  
1984 Ph.D. in astrophysics  
1995 Habilitation and Venia Legendi, ETH Zürich  
2002 Honorary Professor of ETH Zürich

## Languages

Mother tongue Swiss German, Excellent knowledge of German, Very good knowledge of English, Good knowledge of French (fair in speaking), some abilities in reading Italian and Spanish

## Publications

Author of over 200 scientific papers; 97 publications in refereed journals

h-index: 33, 2855 citations to 155 articles included in the Science Citation Index of the Web of Science, Institute for Scientific Information (August 2009)

## Professional Activities

1999 – present Director of the Physikalisch-Meteorologisches Observatorium Davos and World Radiation Center, Switzerland  
1991 – 1999 Oberassistent at the Institute of Astronomy, ETH Zürich, Switzerland  
1988 – 1991 Research associate at JILA, University of Colorado and NBS, USA  
1985 – 1987 Wissenschaftlicher Mitarbeiter at the Institut für Theoretische Physik und Sternwarte der Universität Kiel, Germany

## International commission membership

2009 – Board member (vice-president) of the *International Radiation Commission* of IAMAS  
2003 – present Member of the CIMO Expert Team on Meteorological Radiation and Atmospheric Composition Measurements of WMO  
2002 – present Member of the International Living With a Star Working Group (Solar Task Group)  
2001 – present Member of the *Consultative Committee for Photometry and Radiometry* (CCPR), of the International Bureau of Weights and Measures (BIPM)  
2001 – 2008 Member of the *International Radiation Commission* of IAMAS  
1998 – 2001 Member of the *Users Committee* of the European Southern Observatory  
1993 – 1997 Member of the *Observing Program Committee* of the European Southern Observatory

## National commission membership

2008 – present	Member of the <i>Federal Space Affairs Commission</i>
2008 – present	Member of the <i>PRODEX Program Committee</i>
2008 – present	Member of the <i>Swiss Commission for Astronomy</i> of SCNAT
2007 – present	Board Member of the <i>Swiss Commission for Astronomy and Astrophysics</i> of SCNAT
2001 – present	Member of the <i>Swiss Committee on Space Research</i> of the SCNAT

## Research interests

Ground-based and space-based radiation measurements; stellar astrophysics, Solar physics, stellar winds, Solar irradiance; space weather, space climate, climate modeling

## PI / Co-I of ongoing research and space projects

### Principal Investigator of

- PREMOS (Precision Monitoring of Solar Variability) space experiment on the French micro satellite PICARD, PMOD/WRC is hardware institute, launch spring 2010 (financed by Swiss PRODEX Funds)
- Research project *Variability of the Sun and Global Climate* in collaboration with ETH-Zürich Institute for Atmospheric and Climate Science, and Institute for Astronomy (financed by ETH Zürich)
- Research project *Irradiance changes of the Sun* (financed by the Swiss National Science Foundations)
- Research project *Short-term variability of the solar UV irradiance and its effects on the stratosphere and mesosphere* (financed by the Swiss National Science Foundations)

### Co-Investigator of

- SOVIM (Solar Variability and Irradiance Monitoring) space experiment on the ISS, in operation during 2008, PMOD/WRC is PI-institute (financed by Swiss PRODEX Funds)
- LYRA (Lyman-Alpha Radiometer), Belgian/Swiss space experiment on the ESA technical mission PROBA 2, PMOD/WRC is hardware institute, launch November 2009 (financed by Swiss PRODEX Funds)
- Research project *New absolute radiometer development for space and ground-based use* (financed by the Swiss National Science Foundations)
- SOTERIA (SOLar-TERrestrial Investigations and Archives) FP7 project, start November 2008

### Scientific associate of

- VIRGO on SoHO

## Observational experience at ESO

1985 – 1999	PI and Co-I of many observing programs involving all large and several small ESO telescopes on La Silla und UKIRT on Mauna Kea
1999 – present	Co-I of observing programs with VLT, VLTI, and Keck

## Observational experience with space borne instruments

1982 –1987	PI and Co-I of many observing programs with IUE
1991 –1999	PI and Co-I of several observing programs with HST
2000 –present	Co-I of observing programs with XMM-Newton and Chandra