INSTITUTET FÖR RYMDFYSIK
Swedish Institute of Space Physics

Curriculum vitae – Dr. Uwe Raffalski (Docent)

Date of Birth

1963-07-11 in Rahden/Westfalia in Germany.

Nationality

German and Swedish.

Marital status

Married and has two daughters (9 and 14 year old).

Education and working experience

Oct 2007	Accepted as Associate Professor (docent) at Umeå University.
11/2004 – 12/2004	Member of the SWEDARP 04/05 expedition to the research station Wasa, Antarctica, by the Swedish Polar Research Secretariat.
9/2003 – …	Research scientist at the Swedish Institute of Space Physics (permanent position).
2/2003 – 8/2003	On leave from IRF. Leader of Coldlab AB, a small company offering measurements with a mobile radar and infrared camera
11/1997 – 1/2003	Research scientist at the Swedish Institute of Space Physics
11/1993 – 10/1997	PhD student at University Bremen.
10/1985 – 9/1993	Student in physics, University Bremen, Tyskland.
10/1984 – 10/1985	Student in data technology at the University Erlangen, Tyskland.
1/1984 – 7/1984	Worked in a painting department of the German x-ray-instrument factory Picker & Co. KG in Espelkamp.
9/1982 – 12/1983	Alternative military service as casualty ward in an ambulance car.

Diploma

Diploma in physics, University Bremen, Institute of environmental physics 1993, comparable to a Fil. Mag. In physics. Title of the diploma thesis: „Microwave-Radiometry in Atmospheric Science using the Reference Beam-Method“. Supervisor Prof. K. Künzi, Bremen.

PhD (magna cum laude) at the Physics Department of the Bremen University, 1997. Thesis title:

„Observation of Stratospheric Trace Gases over Ny-Ålesund, Spitsbergen, using a Ground-based Microwave-Radiometer“. PhD thesis, Reports on Polar Research, 278, 1998, ISSN 0176-5027. Supervisor Prof. K. Künzi, Bremen.

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Research experience

Responsible scientist for development, maintenance, and operation of the Swedish millimeter wave radiometer KIMRA at the Swedish Institute of Space Physics since November 1997.

4 years as PhD student in Bremen.

Involved in planning and construction of the German microwave radiometer for the German polar research station on Svalbard. This work included project work and reports to the German equivalent to the Swedish Research Council.

Responsible for planning and construction of the Swedish microwave radiometer for atmospheric research at IRF. This work includes budgeting and economical report as well as scientific reports plus applications to various research financing resources.

Collaboration with Russian, German and French research institutes.

Knowledge of various remote sensing methods and technologies within the field of Earth sciences.

Teaching experience

Responsible for a course for fourth year students in the civil engineering programme in Space Technology: Environmental observations from space. (each fall in 2003 - 2006)

Lecturing in atmospheric chemistry of the ozone layer and the atmosphere of other planets in our solar system and remote sensing methods for atmospheric researchas part of the civil engineering programme in Space Technology, the 3-year civil engineering programme in Space Technology and at the Space high school in Kiruna.

3 invited lectures on ozone research, ozone-climate interaction and climate change for students at the Högskola Kalmar, Natural Resources Management Research Unit, NRMR, Department for Environmental science at the Institute of Biology and Environmental Science, Dec 2004.

Supervision of a PhD student in 2002 and 2003.

Supervision of 4 projects on ozone related issues with students at local schools in Kiruna and Luleå (5 and 10 points) since 2002

Language skills:

German as mother tongue, writing and speaking English and Swedish language fluently. Some knowledge of French.

English and Swedish language has been used for lecturing.

Scientific interest

Observations of the Earth from ground and from space.

Especially measurements of atmospheric trace gases, the ozone layer, global climate.

Global environmental issues and international collaboration with respect to these issues (Montreal protocol, Kyoto protocol, IPCC).