

Peter Carl

ASWEX

Hausvogteiplatz 5–7, 10117 Berlin

Tel: +49 (0)30 - 2093 46627, Fax: +49 (0)30 - 2093 ...

Email: pкарl@wias-berlin.de, pкарl@aswex.de

Graduation

1971 **Diploma** (Physics), *Humboldt University at Berlin (HUB)*

1974 **Dissertation** (Dr. rer. nat., Physics), *Humboldt University at Berlin*

Professional Experience

GDR Academy of Sciences (AdW), Central Institute for Electron Physics (ZIE), Berlin (*Research Scientist, Collaborator*)

1973–1975 **Plasma Chemistry**: thin polymer films, nonlinear structure formation

1974–1980 **Synergetics**: modelling of complex systems, software engineering

1978–1985 **Nuclear Fusion Research**: modelling of inertially and magnetically confined plasmas

1984–1987 **Climate Modelling**: research initiative on the consequences of nuclear war

1987–1990 **Scientific Peace Research**: "nuclear winter" project

Teaching: lectures and seminars on climate modelling, Meteorological Institute, HUB

1990–1991 **Climate Impact, Climate Dynamics**: Kuwait oil well fires, monsoon hypothesis

AdW Successor KAI e.V. (*Research Scientist and Project Leader*)

1992–1993 **Climate Dynamics**: dynamic structure of the boreal summer monsoon

Humboldt University at Berlin, Institute of Physics (*Research Scientist, Collaborator*)

1994–1996 **Climate Dynamics**: structural climate variability, topologically oriented modelling studies

Teaching: seminars and training courses on climate modelling and climate dynamics

Climate Dynamics Group c/o Research Association Berlin (*Project Leader*)

1993–1997 **Climate Dynamics**: modelling and geometrical interpretation of monsoon dynamics

Max Planck Institute for Meteorology, Hamburg (*Research Scientist, Collaborator*)

1997–1998 **Method Design**: verification of nonlinear concepts, time–frequency analysis (TFA)

Climate Dynamics Project c/o Research Association Berlin (*Freelance Researcher*)

1998–2000 **Signal Analysis**: TFA of real and model data ("Global Change" dynamics, CH₄-Anomaly)

Leibniz Institute of Freshwater Ecology und Inland Fisheries (*Research Scientist, Collaborator*)

2000–2003 **Hydrological Time Series Analysis**: component separation, multifractal analysis

Max Planck Institute for Plasma Physics (*Research Scientist, Collaborator*)

2003 **Plasma Physics**: modelling of magnetically confined fusion plasmas

Max Planck Institute for the History of Sciences (*Research Scientist, Collaborator*)

2004–2005 **Albert Einstein Exhibition**: responsibility within the section "Einstein's world today"

Leibniz Institute of Freshwater Ecology and Inland Fisheries (*Research Scientist, Collaborator*)

2005–2009 **Method Design**: identification of climate signals in runoff data

ASWEX (formerly IAMARIS e.V.) – Association of Senior Water Experts (*Founding member; Secretary 2009–2012, Managing Director*)

2009– **Projects** „Climate Dynamics & Signal Analysis“ and „Scientific Peace Research“

Water Management: project work in East and Southeast Asia (China, Vietnam)

Method Design and Study: signals and synchronous motions in the climate system

Climate Modelling: monsoon dynamics

Systems Analysis: climatic signature of the man's economic activity

Scientific Peace Research: reanalyses on the „nuclear winter“ theme

(State of December 20, 2013)