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Curriculum Vitae

MAIN QUALIFICATION

Meteorologist / Sea Ice Scientist

CURRENT POSITION

Research scientist at the Antarctic Climate and Ecosystems Cooperative Research Centre (ACE CRC), University of Tasmania, Hobart, Tasmania, working as Principal Investigator for airborne laser scanning for the calibration/validation of remote sensing sea ice data and towards a numerical sea ice forecast model for the Antarctic.

EDUCATION

- 2004 Received Dr. rer. nat. (PhD equiv.) degree in physics from Universität Bremen, Germany. Advisor: Prof. Dr. Peter Lemke. The title of the thesis is: A numerical model for short-term sea ice forecasting in the Arctic.
<http://epic.awi.de/Publications/Lie2004c.pdf>
- 2000-2004 PhD student at Alfred Wegener Institute for Polar and Marine Research (AWI) / Universität Bremen.
- 1996 Received Diploma degree in Meteorology from Freie Universität (FU) Berlin, Advisor: Prof. Dr. Günter Warnecke. The topic of the thesis was the further development of a computer program to determine displacement vector fields from sequential satellite images.
- 1994 43rd Scottish Universities Summer School in Physics, Dundee, on The Determination Of Geophysical Parameters From Space.
- 1990-1996 Student at the Institute for Meteorology of the FU Berlin.

EMPLOYMENT

- 01/2006-05/2006 Research scientist at the Commission for Glaciology of the Bavarian Academy of Sciences and Humanities working on a numerical model of the internal circulation of Lake Vostok, Antarctica.
- 05/2004-12/2005 Research scientist at the Alfred Wegener Institute for Polar and Marine Research (AWI) working on the validation of numerical sea ice model results against remote sensing.
- 09/1999-04/2004 Research scientist at the AWI for further development of a numerical sea ice model.
- 08/1997-08/1999 Research scientist wintering at the German Antarctic Research Station Neumayer, Antarctica, responsible for the Meteorology and Air-Chemistry Labs (incl. 15 months stay at the station).
- 11/1996-08/1997 Research assistant at the Institute for Space Sciences of the FU Berlin, processing AVHRR data.

PROJECT EXPERIENCE

- 2005 Contributions to the DFG-funded (Deutsche Forschungsgemeinschaft - German Research Foundation) project Ice-water interactions in the subglacial Lake Vostok, Antarctica: numerical simulations (DFG-Projekt Nr.: MA3347/1-2)
- 2004 Contributions to the EU-funded projects SITHOS (Sea Ice Thickness Observing System; Contract Number: EVK2-2002-00146) and GreenICE (Greenland Arctic Shelf Ice and Climate Experiment; Contract Number: EVK2-2001-00280)
- 2000-2003 Main scientific contributor to the German ENVOC (ENVISAT Oceanography) project funded by Helmholtz-Gemeinschaft Deutscher Forschungszentren (HGF) grant 01SF9915/0
- 1994-1996 Cooperation in a German-Chinese joint venture between the Institute for Meteorology of the Freie Universität Berlin (FU Berlin), Germany, and the Second Institute of Oceanography at Hangzhou, Peoples Rep. of China.

AWARD

- 12/2002 Awarded Best Student Paper Prize of the 16th International Symposium on Ice by the International Association of Hydraulic Engineering and Research held in Dunedin, New Zealand.

INVITED TALKS

- 09/2005 Arctic Climate - Implications on Offshore Activities, Arctic Oil & Gas Development - Challenges and Opportunities, 26.-27. September, London, England
- 04/2005 Climatic Changes and the Implications for Polar Shipping, Arctic Shipping: Demand and Opportunities - Challenges and Technological Solutions, 27.-28. April, Helsinki, Finland.

CRUISE EXPERIENCE

- 2008 6 weeks cruise (12 Oct to 21 Nov) of Australian RSV AURORA AUSTRALIS to the Antarctic as Principal Investigator for airborne laser scanning.
- 2007 6 weeks cruise (4 Sep to 17 Oct) of Australian RSV AURORA AUSTRALIS to the Antarctic as Principal Investigator for airborne laser scanning during the Sea Ice Physics and Ecosystem eXperiment (SIPEX) (www.sipex.aq).
- 2004 6 weeks cruise (16 Jul to 29 Aug) of German RV POLARSTERN to the Arctic as leader of the sea ice group.
- 2003 8 weeks cruise (28 Feb to 24 Apr) of German RV POLARSTERN to the Arctic for sea ice thickness measurements, contribution to ESA's CryoVEX-2003 campaign.
- 2001 10 weeks cruise (31 Aug to 7 Oct) of German RV POLARSTERN to the Arctic for sea ice thickness measurements.