

CURRICULUM VITAE-SHORT

Fred Sigernes

Personal information

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Position: Prof. physics, University Centre in Svalbard (UNIS).

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Born: 10 December 1966 Hammerfest, Norway.



Education

1. Examen Artium, Bardufoss 1986.
2. Can. Scient. phys., University of Tromsø 1991.
3. Dr. Scient. phys., University of Tromsø & UNIS 1996.

Jobs

1. Teaching Assistant in mathematics, University of Tromsø autumns 1988, 1989, 1990, 1991.
2. Teaching Assistant physics, University of Alaska spring 1992.
3. Research Assistant optics, University of Alaska autumn 1992 and spring 1993.
4. Research Assistant at UNIS from 1993 to 1996.
5. Scientist at the Norwegian Institute of Fisheries Aquaculture Ltd (1996-1998).
6. Research advisor at the Norwegian Institute of Fisheries since 1998 -.
7. Associate prof. in geophysics at UNIS (1998 – 2006).
8. Head of the Geophysical department at UNIS (1998 - 1999, 2001 - 2002, 2005)
9. Head of Station Science Board (SSB) for the Auroral Station in Adventdalen (2000 – 2006).
10. Presently Prof. in Optics and Atmospheric research UNIS, 2007 –
11. Head of the Kjell Henriksen Observatory (KHO), Svalbard, 2007 –
12. Birkeland Center for Space Science (UNIS node Center of Excellence UiB), 2012 –
13. Professor II, Institutt for teknisk kybernetikk, NTNU, 2018 – 2020, 2020 -2023.

International awards / appointments

1. Awarded the European Commission Research Directorates General Marie Curie Host Fellowship (2001-2004): Training site: Aeronomy and Remote Sensing in the Arctic (ARSA)
2. WMO Norbert Gerbier - MUMM International Award 2005.
3. 1st opponent: Doctoral Thesis of Hanna Dahlgren, Multi-spectral analysis of fine scale aurora, KTH Electrical Engineering, Stockholm, Sweden, 2010.

Teaching at UNIS

1. AGF-207 Space activity and remote sensing.
2. AGF-301 The upper polar atmosphere.
3. AGF-210 The middle polar atmosphere.
4. AGF-331 Spectroscopy and Remote sensing.
5. AGF-218 Satellite and sounding rocket construction.
6. AGF-216 The Stormy Sun and Northern Lights

External teaching

1. Hyperspectral imaging, Astronautic Technology (ATSB), 19-23 March 2019, Shah Alam, Malaysia.
2. Low Cost Hyperspectral Imaging for Drones, Summer Schools Arctic Earth Observation techniques, Norwegian Centre for Space-related Education (NAROM), Andøya Space Centre, 8-12 August 2016, Norway.
3. TTK20-Hyperspectral remote sensing, Institute for technical cybernetics, NTNU, autumn 2018/19.
4. TTK4265-Optical Remote Sensing, Institute for technical cybernetics, NTNU, autumn 2020.

Students: Supervised 21 Masters and 11 Ph. D. students

Publications: Prof. Dr. F. Sigernes has 80 publications in international journals with referees. Attended / participated in 20 posters and in over 93 oral presentations on conferences. He has organized 3 international scientific conferences.