

Bo Galle, 521225-5938, Bilaga B

Appendix B. CV for Bo Galle

Name	Bo Galle
Born	25 December 1952, Lidköping, Sweden
Title	PhD in Environmental Science and Physics
Position	Professor
Employment period	Permanent
Address at work:	Department of Earth and Space Sciences, Chalmers University of Technology, S-41296 Gothenburg, Sweden.
Telecommunication:	Tel: +46 (0)31-7725654,
e-mail:	bo.galle@chalmers.se

1. Graduation degree

Master in Science and Engineering (Civilingenjör, Teknisk Fysik), Chalmers 1976.

2. Doctoral degree

PhD in Environmental Science and Physics 1999, *“Development and Application of Methods based on FTIR and DOAS Absorption Spectroscopy for Atmospheric Research”*, Supervisor Eva Selin.

3. Postdoctoral experience

Held a 25% position as Senior Research Associate at Department of Geography, Cambridge University during 2002.

4. Docentship

“Docentkompetens” year 2002

5. Current position

Presently employed permanently as professor at Department of Earth and Space Science, Chalmers. Head of Optical Remote Sensing group, 100 % research on external funding.

6. Past employment/appointments and positions held

2011-05 – present	Professor, earth and Space Sciences, Chalmers
2002-06 – 2011-04	Associate Professor, Radio and Space Science, Chalmers
2002-01 – 2002-05	University Lecturer, Radio and Space Science, Chalmers
2001-02 – 2002-01	Senior Research Associate, 25%, Cambridge University, UK
1999-09 --.2001-12	Research scientist, Analytical and Marine Chemistry, Chalmers
1999-09	PhD in Environmental Science and Physics.
1979-07 – 1999-09	Research scientist Swedish Environmental Research Institute
1976-06 – 1979-07	PhD student for prof. Ingvar Lindgren, Physics, Chalmers
1976-06	MSc Engineering Physics, Chalmers University of Technology

7. Awards and honors

In 2003 awarded Professor of Honour at Anhui Institute of Optics and Fine Mechanics in Hefei, China.

8. Examined PhD students as main supervisor

Supervisor of 3 PhD students examined 2004 and 2009;

- Yong Yu, *“Development and application of Differential Optical Absorption Spectroscopy (DOAS) for Asian urban air monitoring and atmospheric research”*, October 2004.

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- Mattias Johansson, "*Application of passive DOAS for studies of megacity air pollution and volcanic gas emissions*", March 2009.
- Claudia Rivera. "*Application of Passive DOAS using Scattered Sunlight for quantification of gas emissions from anthropogenic and volcanic sources*", October 2009

Presently supervising 3 PhD-students; Jerker Samuelsson, Vladimir Conde and Santiago Arellano.

Main supervisor for one Post Doc., Andreas Geyer, 2002

7. Other information

The applicant has co-ordinated 2 EU-projects of high relevance for the application; DORSIVA (*Development of Optical Remote Sensing Instruments for Volcanic Applications, 2002-2005*) and NOVAC (*Network for Observation of Volcanic and Atmospheric Change, 2005-2010*).

International cooperation

The research in the Optical Remote Sensing group is very applied and international in general, resulting in a lot of international cooperation. In specific, as a consequence of the intensive recent work with volcanic gas emissions, and as coordinator of the DORSIVA and NOVAC EU-projects, the international cooperation within this specific field is presently very large and active and includes scientists from Europe, USA, Chile, Colombia, Ecuador, Nicaragua, Costa Rica, Guatemala, El Salvador, Mexico, D.R. Congo, Philippines and Russia.

Experience

Bo Galle received his M.Sci.Tech at Chalmers University of Technology in Gothenburg in 1976. After 4 years at the Physics Department at Chalmers working with Lidar he moved to Swedish Environmental Research institute (IVL). The work at IVL was focused on developing and applying methods based on optical remote sensing, primarily DOAS and FTIR, to various environmental applications including urban air pollution, industrial emissions, studies of climate gas emission from various eco-systems and studies of stratospheric ozone depletion. The stratospheric research was carried out as PI for the NDSC (Network for Detection of Stratospheric Change) FTIR instrument at Harestua, Norway, and also comprised being PI in several EU-projects related to stratospheric ozone (SESAME, THESEO, COSE). In spring 1999 Bo presented his dissertation: *Development and Application of Methods based on FTIR and DOAS Absorption Spectroscopy for Atmospheric Research*, and received a PhD in Environmental Science at Chalmers University.

In 1999 he moved to Chalmers and since 2000 one of his major topics has been development of optical remote sensing instruments for studies of volcanic gas emissions. This work involved a 25% employment as Senior Research Associate at Cambridge University, UK, during 2001, as well as co-coordinating the EU-project DORSIVA (*Development of Optical Remote Sensing Instruments for Volcanic Applications, 2002-2005*). One of the instruments developed in DORSIVA was very successful and during 2005-2010 he coordinated a new EU-project NOVAC (*Network for Observation of Volcanic and Atmospheric Change*) based on these achievements. His second major topic is studies of urban air pollution in megacities in developing countries, including close cooperation with authorities and scientists in Beijing and Mexico City. In 2003 he was awarded Professor of Honour at Anhui Institute of Optics and Fine Mechanics in Hefei, China, operated by China Academy of Science. In 2011 he received a professor position at Department of Earth and Space Sciences at Chalmers.