

Curriculum Vitae – Dr. Henrik Fahlquist

CONTACT-
INFORMATION Dr. Henrik Fahlquist
e-mail: henrik@fahlquist.se

WORKING
EXPERIENCE **Blue Scientific Ltd.**, Cambridge
Senior Application and Service Specialist, SPOC for MetalJet **February 2019 – Present**
Blue Scientific took over the service and sales operations of the Nordic markets regarding Bruker AXS equipment in February 2019. i.e. XRD, SCD and XRF.

Bruker AXS GmbH, Solna
Senior Application and Service Specialist, SPOC for MetalJet **July 2018 – January 2019**

I was hired to be the Single Point of Contact for the global service organization for Bruker AXS equipment equipped with Excillum MetalJet X-ray sources. I am also responsible for installations, maintenance, service and application support on the Bruker AXS product lines in the Nordic countries and Iceland.

Key responsibilities:

- Single Point of Contact for Bruker AXS Excillum MetalJet X-ray Sources
- Installations of new equipment
- Corrective and preventive maintenance
- Customer training
- Application support

Excillum AB, Kista
Customer Support Manager **January 2018 – June 2018**

My responsibilities included recruitment of new staff, organizing maintenance as well as planning installations of customer equipment. I organized customer trainings and I was responsible for creating good relations with OEM partners. I single-handedly implemented a training program for the MetalJet X-ray sources, set up a complete service equipment for training and troubleshooting parts and I organized the team in an efficient way transferring the work to the online Microsoft Sharepoint platform. I also created a preventive maintenance schedule to increase the uptime of the customers' X-ray sources.

Key achievements:

- Laid the foundation for a new service organization
- Introduced a system for handling repairs and returns of equipment
- Set up a full equipment for troubleshooting of faulty parts and training
- Created a training programme and training material
- Laid the foundation for preventive maintenance of the equipment
- Introduced work on the online platform Microsoft Share Point

Bruker AXS Nordic AB, Solna
Application and Service specialist **January 2015 – January 2018**

I was working as specialist in the Nordic countries and Iceland on Bruker HRXRD, SAXS, powder and single crystal X-ray diffraction equipment. My qualifications also included service, installations and application support on Bruker XRF spectrometers.

Key responsibilities:

- Installations of new equipment
- Corrective and preventive maintenance
- Customer training
- Application support

Höganäs AB, Höganäs*Material Development Engineer***January 2014 – December 2014**

I was hired as Material development engineer to develop the Soft Magnetic Composite (SMC) materials and as a project leader for up-scaling of production.

Key responsibilities:

- Development of Soft Magnetic Composite materials for inductors, electric motors, diesel injectors etc.
- Project Management
- Method Development
- Magnetic Characterisation

Stockholm University, Stockholm*Researcher in Materials Chemistry***June 2013 – January 2014****Stockholm University, Stockholm***Advisor summer school***June 2009, 2010 & 2012**

Advisor at summer school for high school students in the subject Materials Chemistry.

*Lab advisor***2008 – 2013**

Supervisor at lab work associated with the basic courses in chemistry.

EDUCATION

Stockholm University**Department of Materials and Environmental Chemistry (DMEC)***PhD Candidate in Structural Chemistry***August 2008 – June 2013**

PhD thesis title: Transition Metal Hydride Complexes and Hydrogenated Gallium Clusters – Synthesis and structural properties

- Expertise include solid state synthesis, X-ray scattering, neutron scattering, IR, NMR and DSC
- Teaching experience >2000 hours
- Published in JACS: H.Fahlquist *et al.* 133 (14574-14577)
- Participant of the Oxford Neutron Diffraction School 2009
- Participant of the school Hercules HSC14: Neutrons and Synchrotron Radiation in Materials for Energy, Grenoble 2012
- Participant of the Erice International School of Crystallography 2011
- Talks and Posters
 - Nordic Centre of Excellence on Hydrogen Storage Materials, 2010, 2011
 - ISIS Workshop at Chalmers, Göteborg 2011, 2012
 - Radiation Interaction with Material and its Use in Technologies, Kaunas, Lithuania, 2012
 - Swedish Neutron Scattering Society, Stockholm, 2012
 - International Symposium on Metal Hydrogen Systems 2012, Kyoto, Japan, 2012
 - Invited speaker at Cornell University by Nobel laureate Roald Hoffman, 2012

SCHOLARSHIPS

- Åforsk Scholarship for Independent Researchers 2012
- The Royal Swedish Academy of Sciences's scholarship for PhD candidates 2010 & 2012
- Elisabeth and Herman Rhodin's Memorial Foundation, grant for PhD candidates 2012
- K & A Wallenberg's Foundation, travel grant 2011
- The Lars Hierta Memorial Foundation, grant for independent researchers 2010

PUBLICATIONS

- H. Fahlquist *et al.*, Acta Cryst., 2006, E62, o3805-o3807, doi: 10.1107/S1600536806030935
- H. Fahlquist *et al.*, J. Am. Chem. Soc., 2011, 133 (37), pp 14574-14577, doi: 10.1021/ja2067687
- H. Fahlquist, D. Noréus and M. Sørby, Inorg. Chem., 2013 doi: 10.1021/ic400224ah
- H. Fahlquist, K. Kadir and D. Noréus, J. alloys compd., 2013 doi: 10.1016/j.jallcom.2013.05.024
- K. Inge, H. Fahlquist, T. Willhammar, Y. Huang, L. B. McCusker and X. Zou, J. Appl. Cryst., 2013, doi: 10.1107/S0021889813013101 - Highlighted in IUCr Newsletter 21 #3
- H. Fahlquist and D. Noréus, Inorganic chemistry, 2013, doi: 10.1021/ic400714e
- H. Fahlquist, D. Moser, D. Noréus, K. Refson, and S. F. Parker, Inorganic Chemistry, 2016, doi: 10.1021/acs.inorgchem.6b00074
- S. Shafeie, S. Guo, Q Hu, H. Fahlquist, P. Erhart and A. Palmqvist, Journal of Applied Physics, 2015, doi: 10.1063/1.4935489

Linköping University

Master of Science in Chemistry

June 2002 – November 2006

- Master's thesis research at Griffith University, Nathan, Brisbane, Australia
- One year exchange student at National University of Singapore, Singapore
- Member of the council for the Students' Union for two years

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| EXTRA-CURRICULAR ACTIVITIES | Member of my housing cooperative board | 2013 – present |
| | Board member of The Swedish Chemical Society, Stockholm | 2012 – present |
| | Board member of the Research Education Council at Stockholm University | 2012 |
| | Member of the Central PhD Candidates' Council at Stockholm University | 2012 |
| | Safety officer at DMEC | 2010 – 2013 |

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| MISC. EDUCATION AND LICENSES | <ul style="list-style-type: none">• IATA dangerous goods shipping certification• SSG certification• Certified to install equipment in accordance with 21 CFR part 11• Emergency First Response Instructor (CPR, first aid and AED)• Red Cross CPR and first aid training• Drivers license for car and motorcycle• PADI Diving instructor |
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| COMPUTER SKILLS | Microsoft Windows, Microsoft Dynamics, Microsoft Sharepoint, Microsoft Office, Microsoft Project, Linux, L ^A T _E X 2 _ε |
| | Crystallographic software: GSAS, JANA2006, Fullprof2000, Panalytical Highscore plus, FOX, TREOR, Dicvol2006, APEX3, Diffrac.EVA, Diffrac.Leptos and TOPAS |

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| REFEREES | <i>Available on request.</i> |
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