

Curriculum Vitae

Personal data

Elisabet Blom, 1964, Swedish
Married, two children

Education

- Industry Research Student in Mechanics of Heat Transfer and Fluid Dynamics, Linköping University of Technology (Research on temperature measurement at high temperatures), 2001 – *present*
- M.Sc. Mechanical Engineering, Linköping University of Technology/Denmark Technical University 1990
- Gymnasieingenjör Chemistry, Åsö Tekniska Gymnasium. 1980 - 1984

Languages

- Swedish - Very good
- Danish – Good
- English - Good
- French – Basic

Employment

- Tremula Teknologi AB. Owner and Specialist in vibration measurement, and failure investigation.
- Qring Technology International. Owner and Specialist Consultant for thermo dynamics, fluid dynamics, vibration and acoustics.
- ÅF Process AB [*a.k.a. Ångpanneföreningen process AB*] 1996-2007: Specialist Consultant for thermo dynamics, fluid dynamics, vibration and acoustics.
- ABB STAL Finspång, Engineer. Field measurement of vibration and acoustics, Factory Acceptance Testing and on-site troubleshooting. 1991 - 1996
- Linköping University of Technology, Teaching Assistant, 1991
- ACO Läkemedel AB. Skin care products. Process scaling from lab to production. 1984 – 1986
- Linköpings Allmänna Simsällskap. Aqua aerobics instructor
- Linköping University. Member of the Mechanical engineering educating board 2002-2012
- Linköping University. Member of the boarder of school cooperation 2012-2020
- Board member and vice Chairman WIN Sverige 2020-

Publications

1. Värmeforsk 1018, Förbättrad behovsstyrd sotning genom mätning av tubernas egenfrekvens. October 2007 (www.varmeforsk.se)
2. Brandforsk 332-051 Förebyggande av olyckor och skador orsakade av lokaleldstäder inklusive rökgaskanal. En termisk analys. December 2006 (www.svbf.se)
3. Värmeforsk 903 Rosterövervakning med bildanalys. December 2004.
4. Värmeforsk 884. Sugpyrometern – en analys av instrumentet och råd till användare. October 2004
5. Värmeforsk 821 Rostövervakning – Nya metoder för reglering och övervakning av förbränningsrost. August 2003
6. Värmeforsk 801 Mätningar av temperaturer enligt EU:s direktiv för förbränning av avfall. May 2003
7. Värmeforsk 802 Metoder för kartläggning av bränslepartiklars rörelse och temperaturhistorik i rosterpannor och avfallsugnar – etapp 2. March 2003
8. Värmeforsk 788. proveldning i fastbränslepanna för att kartlägga emissioner vid inblandning av avfallsfraktioner. September 2002
9. Värmeforsk 721 Metoder för rostövervakning – dagslägesbedömning. January 2001.
10. Värmeforsk April 2000. Metoder för kartläggning av bränslepartiklars rörelse och temperaturhistorik i rosterpannor/avfallsugnar – etapp 1

Professional Experience

Project examples:

- SAKAB, Third party inspection of industry gear. 2007
- Advisory Consulting. Troubleshooting of offshore Steam Turbine. 2006 – 2007
- Brandforsk. Investigation of overheating of funnels when used for domestic heating. 2005 – 2006
- Unilevel. Investigation of and implementation of countermeasures for floor vibration in compressor room. 2005.
- Forsmark Kraftgrupp AB. Consultant for vibration, writing of specifications on measurement technology, technical requirements specifications and standards for procurement of equipment. 2004 – present.
- Oskarshamns Kraftgrupp AB. Writing of Technical Specifications for and Factory Acceptance Test of rotating machinery for Nuclear Power Station upgrade. 2004 – present.
- SSAB, Oxelösunds Järnverk. Investigation and re-design of thermodynamics for mild steel oven. 2002.
- Forsmark Kraftgrupp AB. Technical requirements specifications for procurement of and Factory Acceptance Testing of low pressure turbines. 2001 – 2005.
- Värmeforsk. Various investigations (see publications list above). 2000 – 2011.
- Church of Sweden. Investigation of activated carbon filtration for crematoria. 1999.
- Forsmark Kraftgrupp AB. Investigation of turbine blade failure, 1998.
- ABB STAL AB. On-site trouble shooting, field balancing, modal analysis, dynamic blade testing etc. 1991-1996.
- Teacher, Thermodynamics, Fluidynamics, and Vibration. Linköping University and industry. 1991 – 2015
- Vibration responsible in upgrading of Oskarshamn 3 2004 - present
- Replacement of Vibration condition monitoring in Oskarshamn nuclear power plant. 2012 – present
- Turbine failure investigations. In total about 10 and still present.
- Investigations of different kinds of fluid induced transients in pipe systems.
- Evaluations of new measuring technics for pipes
- Investigation of thermo mechanical problems in big generator rotors
- Measuring dynamic pressure and vibrations simultaneously at pipes
- SVK. Measuring static ODS on gas turbine
- SVK. Dynamic ODS measurements on gas turbine, steam turbines and pipes
- Stockholms trafikförvaltning Performance measurement on escalator breaks
- ABB. Function control of vibration transducers on site.
- OKG. Pipe vibration monitoring.
- OKG. ODS and performance test at diesel engines.
- Leakage investigation at valves using acoustic emission.

Affiliations

1. ÅF's board member in Värmeforsks research group for process control.
2. Board member for Mechanical Technology and Design, Linköping University of Technology.
3. Board member for Bengt Ingeströms stipendiefond.
4. Board member for Scandinavian Vibration society
5. Member of Swedish ISO group TK111 Ag2 (Shock and Vibration – machine vibration and condition monitoring)