

Curriculum Vitae



M.Sc. Elisabet Blom, 1964-12-12, Swedish
Married, 2 children

Background

Elisabet Blom is expert in measurement of temperature measurement, pressure, flow and vibration. She has a deep understanding in structure- and fluid- mechanics which is useful when analyzing root cause behind production interference, and system breakdown. Elisabet's experience lies mainly in the energy sector for gas turbines, steam turbines, nuclear power plants, thermal power plants and similar.

Elisabet both plans- and audit- condition monitoring systems. She has also worked on technical specifications for and factory inspection of new machinery components for the Swedish nuclear power industry's performance upgrade program.

Elisabet has acted as expert witness of accidents caused by high cycle fatigue for heat exchangers in rotating machinery such as turbines, generators etc. In addition, she can make in-depth investigation of performance related problems for incinerators, crematoriums and rotating machinery.

Elisabet is part of the Faculty of Mechanical Engineering and Design, Linköping University, the Board of Bengt Ingeströms scholarship fund. She is present the Chairman for the Swedish SIS TK111 AG2 connected to ISO TC108 SC2 (Mechanical vibration, shock and condition monitoring). Board member in WIN Sweden.

Languages

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

Employment

1984-1986	ACO Läkemedel AB. Commissioning and laboratory work with fluid medicals such as mixtures and emulsions.
1991-1991	Linköping University. Teacher in Thermodynamics.
1991-1996	ABB STAL Finspång, Vibration engineer
1996-2007	ÅF-Process AB. Measuring specialist in vibration, thermodynamics and fluid mechanics
2007-2020	Qring Technology International AB. Measuring specialist in vibration, thermodynamics and fluid mechanics
2021-	Tremula Teknologi AB Measuring specialist in vibration, thermodynamics and fluid mechanics

Example Assignments

2007-2007	licensed professional, third-party inspection of gear
2008-2009	Third-Party audit of turbine failure
2006-2007	Bergesen World Wide Offshore. Accident Investigation for steam turbine

1996 - present	<p>Forsmark power group</p> <p>Examine and evaluate vibration problems, write specifications for Measurements, equipment purchase</p> <p>Investigation of blade failure Forsmark 3</p> <p>Investigation of blade related failures (nuclear)</p>
2016	Development of new methods for detections of a non-homogenous glue line
2016	F3 Road cause analysis of bearing trouble and oil problems.
	Specification and inspection of new turbine and generator rotors at Forsmark
	QC at balancing and inspection of rotors to nuclear power
1999	Investigation of carbon purification for crematoria
2006	Fortum Värtan. Investigation of the causes of injury in district heating pumps in the Darkness
2004	Fortum Värtan. Life Assessment for heat pumps for district heating
2008	Fortum Värtan. Vibration training for operational personal
2007	Falun Failure investigation, Turbine
2009	Norrtälje. Failure investigation Turbine
2006	SAKAB. Failure investigation gear box
2015	Kraftringen Failure investigation flue gas fan
2016	Söderenergi. Failure investigation Turbine
2020-present	Gas turbine Failure investigation and vibration measurements on reserve power stations
2022	Karlshamn power station. Finger print vibration measurements.
2004 - present	<p>Oskarshamn power group as a vibration specialist</p> <p>Vibration Specialist in performance upgrade project PULS for unit 3</p> <p>Vibration Specialist in performance upgrade project PLEX for unit 2</p> <p><i>The above work includes specification, verification inspection etc</i></p> <p>On site vibration expert during commissioning of O3</p> <p>Commissioning and participation in investigations on vibration problems associated with cooling water temperatures above 10 ° C.</p> <p>Hydrogen seal induced vibrations in the generator</p> <p>Investigation of bearing failures on the new turbine from Alstom</p> <p>Vibration Investigation of pipe vibration for systems 311/312/314</p> <p>Measurement of acoustic emission at the 312 valves for damage detection</p> <p>Water hammer investigation</p> <p>Blade vibration investigation</p> <p>Pipe support failure investigation on main steam pipe.</p>

Ringhals	
2011-2012	Vibration measurements during commissioning of new LP turbines at unit 1
2012-2016	Vibration, pressure and temperature measurements due to shugging in WW unit 1
2005-2006	Fire Research. Investigation of overheating in chimneys when burned in fireplaces
2000-2011	Värmeforsk. Investigations concerning measurement in boilers and incineration. See the list of publications below
2005	Unilever. Investigation of floor vibrations in the compressor and development of action plan
2002	SSAB. Review and redesign of the thermodynamic conditions in a steel oven at Oxelösunds Ironworks
2007-2012	Länsförsäkringar. Expert at the turbine failure
2010 -2022	Onsala engineering office, Forsmark, Oskarshamn, Fortum. Training of engineers in measurement technology
2000-2020	Linköping University and KTH (Wallenberg laboratory). Supervising of master theses.
2022-2023	Educating new operating personal in basic thermos dynamics and power station basics.

Education

1980-1984	Åsö technical school. College graduate in Chemistry
1986-1990	Linköping University / Denmark Technical University Master of Science in Thermodynamics and Fluid Mechanics
1991-1995	Training in turbine technology, vibration monitoring and commissioning of ABB Group
2000-1990	PhD training started but there have not been time to finish. Continuous training due to work and supervising inside Swedish nuclear industry such as; Nuclear safety, radiation, environmental

Publications

Värmeforsk	October 2011 Improved on-demand cleaning by measuring tubes Natural frequency - Part 2
Värmeforsk	November 2007. Improved on-demand cleaning by measuring tubes Natural frequency - Part 1
Fire Research	December 2006. 332-051 Preventing accidents and injuries caused by local fires including the flue. A thermal analysis
Värmeforsk	December 2004. 903 Grate monitoring with image analysis
Värmeforsk	October 2004. 884th Suction pyrometer - an analysis of the instrument and Advice user
Värmeforsk	August 2003. 821 Corrosion Monitoring - New approaches to regulation and Monitoring of the combustion grate
Värmeforsk	May 2003. 801 Measurements of the temperature in accordance with EU directives incineration
Värmeforsk	March 2003. 802 Methods for mapping fuel particles movment and temperature history in grate boilers and incinerators - Stage 2
Värmeforsk	September 2002. 788th test firing of solid fuel boiler for mapping emissions in the mixing of waste fractions.
Värmeforsk	January 2001. 721 Methods of corrosion monitoring - current situation assessment
Värmeforsk	April 2000. Methods for mapping fuel particle motion and temperature history in grate boilers / incinerators – Stage 1