

# Volvo Materials Technology - Gothenburg Lab

## Group BF67320 - Metallic Materials

### Ulla Boman - Manager Metallic Materials

Telephone: +46 31 322 3364

Email address: [Ulla.Boman@volvo.com](mailto:Ulla.Boman@volvo.com)



### Rasha Alkaisee

Telephone: +46 31 322 0663

Email address: [Rasha.Alkaisee@volvo.com](mailto:Rasha.Alkaisee@volvo.com)

#### Main Competence Areas:

Residual stress measurements by XRD, Shot peening, Steel

#### Typical Components:

Pusher and front axles, Axle stubs, Valve springs, Drive shafts, Gears

#### Responsibility:

X-Ray Diffractometers



### Ingemar Bertilsson

Telephone: +46 31 322 1396

Email address: [Ingemar.Bertilsson@volvo.com](mailto:Ingemar.Bertilsson@volvo.com)

#### Main Competence Areas:

Cast aluminum, Magnesium, (grey iron)

#### Typical Components:

Aluminum Pistons, Cylinder Liners

#### Responsibility:

Material Courses



### Johan Eriksson

Telephone: +46 31 322 3366

Email address: [Johan.Lar.Eriksson@volvo.com](mailto:Johan.Lar.Eriksson@volvo.com)

#### Main Competence Areas:

Grey iron, CGI, Nodular iron, Databases, Image analysis

#### Typical Components:

Cylinder- blocks and heads



### Jonas Höijer

Telephone: +46 31 322 3354

Email address: [Jonas.Hoijer@volvo.com](mailto:Jonas.Hoijer@volvo.com)

#### Main Competence Areas:

Forged components, Heat treatment.

#### Typical Components:

Crankshafts, Connecting rods, Bearings.



## Daniel Kihlbaum

Telephone: +46 31 322 5437

Email address: [Daniel.Kihlbaum@volvo.com](mailto:Daniel.Kihlbaum@volvo.com)

### Main Competence Areas:

Forged components, Precipitation hardened steels, Springs (leaf & helical), SiMo

### Typical Components:

Steering arms, Axles, Valve springs, Exhaust manifolds

### Equipment responsibility:

Cutting equipment, VMT Webpage



## Niklas Köppen

Telephone: +46 31 322 4932

Email address: [Niklas.Koppen@volvo.com](mailto:Niklas.Koppen@volvo.com)

### Main Competence Areas:

Cast Aluminium, Grey Iron, Compacted Graphite Iron (CGI) and Spheroidal Graphite Iron

### Typical Components:

Cylinder Heads and Blocks (passenger cars), Brackets and Coolant Cover Ducts

### Equipment responsibility:

Stereo and Light Optical Microscopes



## Joachim Lindkvist

Telephone: +46 31 322 3357

Email address: [Joachim.Lindkvist@volvo.com](mailto:Joachim.Lindkvist@volvo.com)

### Main Competence Areas:

Grey iron, CGI, Spheroidal graphite iron

### Typical Components:

Cylinder blocks and heads, brackets

### Equipment responsibility:

Hardness machines (Brinell)



## Anton Marberg

Telephone: +46 31 323 4693

Email address: [Anton.Marberg@volvo.com](mailto:Anton.Marberg@volvo.com)

### Main Competence Areas:

Cast Aluminium

### Typical Components:

Cylinder heads and blocks, Brackets, Housings, EGR-components



## Mikael Nordqvist

Telephone: +46 31 322 3351

Email address: [Mikael.Nordqvist@volvo.com](mailto:Mikael.Nordqvist@volvo.com)

### Main Competence Areas:

Welding & Brazing, Stainless Steels

### Typical Components:

Weld- and Brazed Components

### Equipment responsibility:

GDOES



**Johan Pal**

Telephone: +46 31 322 4557

Email address: [Johan.Pal.2@consultant.volvo.com](mailto:Johan.Pal.2@consultant.volvo.com)

**Main Competence Areas:**

Cast Aluminium, Copper

**Typical Components:**

-

**Fredrik Sandberg**

Telephone: +46 31 322 2320

Email address: [Fredrik.Jt.Sandberg@volvo.com](mailto:Fredrik.Jt.Sandberg@volvo.com)

**Main Competence Areas:**

Forged Components, Steel & Heat Treatment

**Typical Components:**

Gears and shaft

**Equipment responsibility:**

Scanning Electron Microscopy & Energy Dispersive X-ray Spectroscopy

**Pål Schmidt**

Telephone: +46 31 322 3367

Email address: [Pal.Schmidt@volvo.com](mailto:Pal.Schmidt@volvo.com)

**Main Competence Areas:**

Grey iron, CGI, Nodular iron, Cast aluminium, Casting simulation

**Typical Components:**

Cylinder blocks and -heads, Housings, Brackets

**Equipment responsibility:**

Non-destructive testing

**Henrik Svensson**

Telephone: +46 31 323 7486

Email address: [Henrik.Svensson@consultant.volvo.com](mailto:Henrik.Svensson@consultant.volvo.com)

**Main Competence Areas:**

Grey iron, CGI, Spheroidal graphite iron

**Typical Components:**

Cylinder blocks and heads, brackets

**Equipment responsibility:**

Scanning Electron Microscopy & Energy Dispersive X-ray Spectroscopy



# Group BF67380 - Surface Technology & Testing

## Henrik Karlsson

### Acting Manager Surface Technology & Testing

Telephone: +46 323 54 71

Email address: [Henrik.Karlsson.8@volvo.com](mailto:Henrik.Karlsson.8@volvo.com)

#### Main Competence Areas:

Powder metallurgy, Steel and heat treatment, Surface technology

#### Typical Components:

Injector yokes, Valve calipers, Valves and Springs

#### Equipment responsibility:

Heat treatment furnaces



## Maqsood Ahmad

Telephone: +46 31 322 3370

Email address: [Maqsood.Ahmad@volvo.com](mailto:Maqsood.Ahmad@volvo.com)

#### Main Competence Areas:

Fatigue and mechanical testing at high temperature, Low cycle fatigue, Creep, Material data for FE analysis

#### Typical Components:

Components working at elevated temperature such as exhaust manifold, Cylinder heads MTS hydraulic system for fatigue testing

#### Equipment responsibility:

MTS hydraulic system for fatigue testing



## Filip Bergman

Telephone: +46 31 322 3362

Email address: [Filip.Bergman@volvo.com](mailto:Filip.Bergman@volvo.com)

#### Main Competence Areas:

Screw joint testing, Courses in screw joint design

#### Typical Components:

All types of screw joints

#### Equipment responsibility:

Screw joint test equipment



## Karin Björkeborn

Telephone: +46 31 322 2933

Email address: [Karin.Bjorkeborn@volvo.com](mailto:Karin.Bjorkeborn@volvo.com)

#### Main Competence Areas:

Screw joint testing

#### Typical Components:

All types of screw joints



## Christer Buchwald

Telephone: +46 31 32 21380

Email address: [Christer.Buchwald@volvo.com](mailto:Christer.Buchwald@volvo.com)

#### Main Competence Areas:

Database development, PL hybrid system

#### Typical Components:

Common Materials Database (CMD)

#### Equipment responsibility:

FileMaker server, Web server, Database hosting etc.



## Dazheng Jing

Telephone: +46 31 323 7587

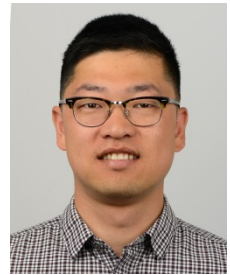
Email address: [Dazheng.Jing@volvo.com](mailto:Dazheng.Jing@volvo.com)

### Main Competence Areas:

Ceramic materials, Catalysis

### Typical Components:

EATS components



## Erik Larsson

Telephone: +46 739 02 87 88

Email address: [Erik.Larsson@consultant.volvo.com](mailto:Erik.Larsson@consultant.volvo.com)

### Main Competence Areas:

Sintered steels, Corrosion, Surface technology

### Typical Components:

Camshafts, Valves

### Equipment responsibility:

Chemicals responsible



## Josefin Ratcovich

Telephone: +46 31 32 21 591

Email address: [Josefin.Ratcovich@volvo.com](mailto:Josefin.Ratcovich@volvo.com)

### Main Competence Areas:

Surface Technology, Electrical contacts and Sensors

### Typical Components:

Connectors, Sensors and Terminals



## Göran Wahlberg

Telephone: +46 31 322 3377

Email address: [Goran.Wahlberg@volvo.com](mailto:Goran.Wahlberg@volvo.com)

### Main Competence Areas:

Electrical contacts and electronics

### Typical components:

Connectors, Sensors and Terminals



## Mattias Widmark

Telephone: +46 31 322 3374

Email address: [Mattias.Widmark@volvo.com](mailto:Mattias.Widmark@volvo.com)

### Main Competence Areas:

Fatigue testing and calculation, Fracture mechanics, Defect sensitivity

### Typical components:

Engine and chassis component

### Equipment responsibility:

Macro photo room



## Reza Zarabi

Telephone: +46 322 3361

Email address: [Reza.Zarabi@volvo.com](mailto:Reza.Zarabi@volvo.com)

### Main Competence Areas:

Screw joint testing

### Typical Components:

Screw, nut, gasket and rivet



## **Gunnar Åkerström**

Telephone: +46 31 322 33 68

Email address: [Gunnar.Akerstrom@volvo.com](mailto:Gunnar.Akerstrom@volvo.com)

### **Main Competence Areas:**

Mechanical testing method development, Strength of metallic materials, Residual stresses

### **Typical Components:**

Crank shafts, Gears, Rocker arms, Springs

### **Equipment responsibility:**

Hydraulic and electromagnetic load frames, measuring systems

