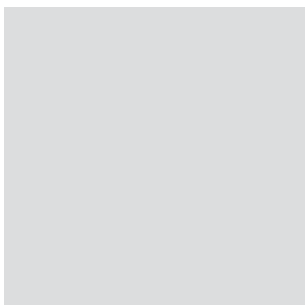




Arkitekter Ingenjörer



Fact file

January 2011



HISTORY

In 1943, Sven-Erik Bjerking, former seaman and engineer, founded the company S-E Bjerking Konsulterande Ingenjörbyrå in Uppsala, Sweden. Fourteen years later, in 1957, the foundation of the company philosophy was set; that all employees contribute in different ways to the company's progress. Ever since, the active employees have also been the owners of the company.

Through the years, Bjerking became known as problem solvers and technical innovators in Uppsala, where they dominate the market. The Bjerking pile, Bjerking rebar shapes, and Bjerking rebar mats are just a few examples of the company's innovations.

In recent years, the company has been involved in different development projects in refurbishment and restoration technology. The focus has been on energy-saving, soundproofing and fire-protection solutions, decontamination of radon and asbestos, production of construction research reports and Handbooks.

The company's founder, Sven-Erik Bjerking, passed away in the summer of 2006 at the age of 92.

FACTS

Bjerking AB mainly runs a consulting business in Architectural design, Structural Engineering, and M&E design. During the last decade, Bjerking have gone from a dedicated Structural engineering company to an "Architect and Engineer" profile.

The company is owned by the employees since 1957, following the philosophy that everyone can contribute with something special. This, in combination with the fact that earnings from all carried out projects is being reinvested in the company, is the key to the company's success.

The main market is the Uppsala, Stockholm, and Mälardalen area. The company has offices in Uppsala, Stockholm, and Enköping.

In 2010, the turnover was SEK 170,000,000, and the expansion continues in Stockholm.

Bjerking AB currently (2010) has 200 employees. At Bjerking, ten consultant disciplines are provided under one company name. Bjerking are comprehensive in their fields of activity. The employees make up a tightly knit team who know each other well, which creates a good workflow without bottlenecks. The client has one point of contact, instead of many different, for each project.

MANAGEMENT AND BOARD OF DIRECTORS

The management team includes the company CEO Anders Wärefors, vice CEO Roine Gillberg, Civil engineering Manager Olle Mårtensson, and Administration Manager Pia Eriksson.

The board of directors consists of Chairman Lars Hallin, External Director Mats Åleskog, Vice-Chairman Anders Paulsson, Internal Director Henrik Håkansson, Internal Director Anna Ahlgren Mårtensson, Internal Director Jonas Wahlström, Substitute Kristofer Angerstig, Substitute Internal Director Rolf Genberg, and Substitute Union Representative Jenny Afvander.

LINE OF BUSINESS

Bjerking is an architect and engineering company that offer comprehensive services in Architecture, Structural Engineering, M&E Services Design, Surveying, Civil Engineering and Geotechnical Surveying and Engineering.

AREAS OF SERVICE

LEAN DESIGN

Lean Design is Bjerking's newest service, which means that the client only signs one contract for a co-ordinated and complete design commitment. 30% of construction errors today come from design errors only mainly caused by poor communication. This can be avoided by giving the right person the correct information at the right time, and by all actors working with a shared information database. Using 3D and BIM design, a shared model is created, where building elements and M&E Services can be co-ordinated. From this model, quantity data are also easily extracted to be used for cost estimates, energy analysis, etc.

The Lean Design service gives the client security and comfort, with one design partner who is responsible for the entire project design. The client can expect cost-effective solutions and total design commitment of the correct product, to the right cost, at the right time, and according to a well-defined process. Through simple 3D visualisations, "virtual design reviews" are made possible, so that the client can see the end result before construction begins. When the client is satisfied with the reviews, the detail design of the BIM model starts. All designers work with the same model, and by using automatic collision control at an early stage enables us to identify and correct design problems immediately.

Traditionally, the construction industry is fragmented, with many specialized companies involved. Bjerking tries to erase the boundaries using interdisciplinary teams with a common value-system and continuous improvements. Even though Bjerking is a relatively small company, all technological expertise in the construction field can be found here under the same roof. This is a great advantage, since the design process becomes more effective and comprehensive, which results in the highest value possible for the client.

Architecture

The goal of the architects and the landscape architects is to create environments that promote comfort, ecological awareness, and the optimum function for the end user. In every project, Bjerking start with focusing on the needs of people, and try to find the best

possible solution for each project. Another goal is to use creative solutions to expand on what is technically and financially possible.

- Architects
- Landscape architects
- Planning architects

Building physics

In building physics, Bjerking work with fire, acoustics, moisture, energy, damage investigation, indoor environment, and environmental commissioning

A large number of problems can arise through the entire lifetime of a building. The consultants of Bjerking deal with moisture and indoor problems, damage investigation, fire hazards, acoustics, energy-saving solutions, and environmental issues. Through preventive actions and environmental inventories, harmful building materials can be identified and dealt with.

The indoor environment service has been developed to secure a healthy indoor climate to live in. Reported health issues are investigated to see if there are e.g. emissions from building material due to moisture, for instance.

- Fire
- Energy
- Acoustics
- Damages due to moisture
- Moisture-secure construction
- Indoor environment
- Environmental inventory

Structural engineering

Structural engineering is an original field of activity for Bjerking since the 1940s. Bjerking provides structural engineering services for houses, industries & facilities, and structural timber design. Bjerking's basic business is the design of buildings, but the company also works with product and method development, as well as research and investigation assignments.

- Houses
- Industry and facilities
- Timber structures
- Investigations
- Foreign markets
- Development
- Computer software and calculations

Geotechnical engineering

The exploitation and changed usage of land demands great knowledge of the ground and its characteristics. It also demands thorough inspections and risk analysis by the consultants. The engineers are involved from start to finish, which prevents unexpected problems and helps to keep costs to a minimum.

In the area of geotechnology, Bjerking masters the entire chain from investigations and surveys to calculations and function controls. We also have experience and knowledge of environmental legislation for land and water.

- Geophysics
- Geotechnical surveys
- Geotechnical investigations
- Risk analyses and inspections
- Vibration measurements

Mechanical and Electrical engineering

The climate issue has become a natural part of daily life, and in Bjerking's opinion, everybody must do what they can to lessen the environmental impact we have on the world. Factors such as Indoor climate and energy usage are taken into account when Bjerking offers M&E engineering, as well as development of control and monitoring systems. The aim is to create energy-efficient and environmentally friendly buildings, based on the customer's needs.

Within electrical engineering, Bjerking performs commissions in the areas of power supply, lighting, bus systems, switch gears, UPS systems, back-up power, telecommunications/data, security and safety systems.

Within mechanical engineering, the company performs commissions in the areas of heating and cooling, ventilation, water supply and gas. Indoor climate investigations are performed in order to find the most appropriate system for the environment at hand. Bjerking also work with energy declarations and mandatory ventilation controls, CE marking, and calculations.

- Electricity
- Energy
- Heating, water supply and drainage
- Control and monitoring

Civil engineering

For extensions and changes of the infrastructure, the engineer's co-ordinate the entire process with the landscape architects. They carry out everything from an initial analysis of the ground conditions to the actual implementation and follow-up. In the areas of land, water supply, sewer systems, roads and streets, Bjerking work with and plan everything in co-operation with landscape architects.

In the sector of water supply and sewer systems, the civil design department has great experience of both consulting and contracting. Some examples of current commissions are the main water piping to Uppsala's new water works, drainage and relocation of piping in conjunction with road and street projects, investigation and design of new constructions and re-constructions of city water supply and sewer systems.

- Land
- Streets and roads
- Water supply and sewer systems

Environmental technology

As the world puts more and more focus on environmental issues, greater demands are put on investigations for possible ground pollution when exploiting and changing the usage of properties. Radon, protection of ground water, licensing matters, environmental ground investigations, and investigations of polluted grounds and water are all extremely important issues to take into consideration for construction projects.

In Bjerking's working model, we start with a historical inventory, to list the types of businesses that have been operating on the premises earlier. Then sampling plans are drawn up, followed by sampling and usually contact with authorities.

- Environmental ground investigations
- Licensing matters
- Risk analyses
- Groundwater protection solutions
- Water investigations
- Radon

Surveying, GIS

Bjerking's team for surveying technology and GIS, Geographic Information Systems, work with mapping and surveying ground conditions for various building construction and civil construction projects. Bjerking offers surveying and setting out, which means that the exact location of the building is marked on the site. Bjerking collect, process, and store data, develop map and information databases, and secure information in geographic information systems (GIS).

Examples of GIS databases that Bjerking have collected for clients include cemetery map databases, media databases and property databases for cultivation.

- GIS
- Surveying and Setting out technology

Project and construction management

A construction project includes a large number of phases and actors, before the end product is finished. With our long experience, Bjerking can manage and organise projects from start to finish. We co-ordinate all actors and create synergy, we make sure that the work is carried out in the correct order, to the budget and time frame, and most important of all, making sure that the intentions of the customer are realised.

Bjerking have over 60 years of experience in working with buildings and environments of cultural historic value. Industrial archaeology means preserving entire environments and bringing them to life.

- Project management
- Construction management
- Planning
- M&E management
- Building preservation
- Industrial archaeology
- Contract inspection

- Condition inspection
- Quality manager according to the Swedish legislation on planning and construction (PBL)

EXAMPLES OF COMMISSIONS

Bjerking has carried out the Structural design and M&E design for the new Copperhill Hotel in the Swedish ski resort, Are. We have also designed the new highway to Nynäshamn.

In Lean Design, Bjerking has designed an apartment block in Edsbyn and recently completed the design of an energy efficient module system nursery that can be adapted to a primary school with only minor changes.

CONTACT INFORMATION

Anders Wärefors, CEO, Direct line: +46-(0)18-65 11 90

Cell phone: +46-(0)70-587 45 17

Roine Gillberg, viceCEO of Bjerking,

Cell phone: +46-(0)70-623 11 23

Olle Mårtensson, Construction Manager,

Cell phone: +46-(0)70-665 11 70

Pia Eriksson Section Manager Administration,

Cell phone:+46.(0)70-651 03 23