

Curriculum Vitae

Bo Bergman

Personal data

Name Bo (L.S.) Bergman
Date of birth May 27, 1943
Place of birth Helsingborg, Sweden
Citizenship Swedish
Family Married to Elisabeth Vanäs; two sons, Anders (born 1976) and Göran (born 1978).

Education

1966 B.A., University of Lund, Sweden (subjects: Mathematics, Mathematical Statistics, Theoretical Philosophy, Numerical Analysis, Theoretical Physics).
1978 Ph.D. in Mathematical Statistics, University of Lund, Sweden.
(Thesis: *Some Contributions to the statistical theory of reliability*)

Positions held

1967-69 Teaching Assistant, Department of Mathematical Statistics, Lund Institute of Technology, University of Lund.
1969-72 Reliability Engineer, Aerospace Division, Saab-Scania AB, Linköping
1973-84 Manager, Statistical Unit, Aerospace Division, Saab-Scania AB, Linköping
1982-84 Adjoint (part time) Professor in Reliability, Department of Mathematics, Royal Institute of Technology, Stockholm
1983-99 Professor in Quality Technology and Management, Linköping Institute of Technology, Linköping University (part time during 1983-84 and during 1999).
1999- SKF-Professor in Quality Sciences, Head of the Department of Quality Sciences (1999-2003), School of Management of Technology, Chalmers University of Technology, Gothenburg.

Selected list of professional activities

Swedish Quality

- Member of the Advisory Board to the Swedish Institute for Quality (SIQ).
- Member of Juries for Quality Awards in the Public sector (Health Care and Swedish Schools)
- Member of the Jury of the Gotland Quality Award (Utmärkelsen Gotländsk Kvalitet)
- Member of the Swedish national standardisation committees on quality and reliability 1979-1986
- Member of the council for TQM, Swedish Manufacturing Industries (Rådet för Offensiv Kvalitetsutveckling, VI)

Research and PhD-education administration

Member of the research and PhD education committees of

- Linköping Institute of Technology (LiTH)(during 1990-1996 its deputy chairman)
- Department of Mechanical Engineering, LiTH (1997- 1998)
- International Graduate School of Management and Industrial Engineering (IMIE), Linköping University, and a member of IMIE's planning group and together with Bo Hellgren, Professor in Management co-director of its Innovation, Change and Customer Focus Research Area.
- Member of the Scientific Committee, School of Technology Management and Economics, Chalmers University of Technology (1999-)

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Member of one of the selection committees of the Council for Work Life Research (Rådet för Arbetslivsforskning, RALF, prioriteringskommitté Teknik och Ledarskap)

International Professional Societies etc.

- Elected member of International Statistical Institute and a member of its Industrial Statistics Committee
- Elected member of the International Academy for Quality (IAQ)
- Member of the Scandinavian Society of Reliability Engineers (one of its founding board members)
- Member of the Academy for Management
- Member of the American Society for Quality
- Member of the jury for the European thesis award in Total Quality Management (E.F.Q.M.) 1990-1994 and during 1992-94 its chairman
- One of the founding members of the Academic Board of the European Masters Program in Total Quality Management (EMPTQM) (1992-1999)
- Member of the Board of the International QFD Network
- Member of the European Six-Sigma Club

Member of the editorial boards of international scientific journals etc.

- *Total Quality Management*
- *International Journal of Engineering Education (1995-1999)*
- *Quality and Reliability Engineering International.*

Furthermore, Bo Bergman has been a referee and a reviewer of a large number of international scientific journals and to research foundations as e.g. NSF in US and The Danish Research Foundation. .

Appointment committees

Bo Bergman has been a member of the appointment committee ("sakkunnig") for, among others, the following chairs

- Professor in Mathematical Statistics especially Reliability Theory at Oslo University (1986)
- Professor in Mathematical Statistics especially Reliability Theory and Statistical Quality Control at Chalmers University of Technology (1993)
- Professor in Quality Management at Chalmers University of Technology (1993)
- Professor in Dependable and Robust Real-Time Systems at Chalmers University of Technology (1998)
- Adjoint professor in Quality Technology and Management, Linköping University (2000)
- Professor and Associate professor in Mathematical Statistics, Danish University of Technology, Lyngby (2004)

and

- a member of the appointment committee ("sakkunnig") for a number of Associate Professorships (docent, Finland, and Professor II, Norway, etc.) and senior lecturer positions.

Conference chairman or co-chairman of international conferences

- Chairman, Manufacturing Management Symposium at the World Manufacturing Congress 1997, Auckland, New Zealand,
- Chairman, International Symposium of Quality Function Deployment 1997, Linköping, Sweden,
- Co-chairman, "TQM and Human Factors", June 1999, Linköping, Sweden,
- Chairman, The First ISIS, "Understanding Variation, A Key to Successful Quality Improvement", 19-21 August, 1999, Linköping, Sweden,
- Co-chairman, Planning seminar (Nov. 19-21 1998, Bruxelles) for the Work Life 2000 conference to occur in Sweden year 2001.

Bo Bergman has, for a large number of international conferences, been a member of their scientific committees, organiser of Invited Papers sessions, key note speaker, invited papers presenter, etc.

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Swedish Professional Societies etc.

- Member of the Swedish Society for Quality and founding chairman of its statistical methods section (SFK:StaM, 1989-92)
- Member of MSc/MBA theses award committees on Quality (Olle Jonsson Priset, Swedish Society for Quality) and Maintenance (UnderhållsTekniskt Centrum, UTC)
- Member of the Swedish Statistical Society (Statistikersamfundet)

Awards etc.

Recipient of the Akao Prize 1998 for “outstanding activities in promoting Quality Function Deployment” (presented at the Innovation and Strategy Conference in Sydney, August 1998, where Bo Bergman was also a Key Note Speaker).

The Jack Youden Award (ASQ, Statistics Division), for the best expository paper in *Technometrics* during 1997.

Leader, Division of Quality Technology and Management, Linköping (1983-1999)

In 1983 the Swedish government appointed Bo Bergman as the first professor in Sweden in the Quality area. Since then, Bo Bergman has developed the new research area Quality Technology and Management with a multidisciplinary approach and with a large industrial co-operation. During the time eight PhD theses and 21 theses for the degree of licentiate of engineering have been produced at the division under the supervision of Bo Bergman. Currently, he supervises nine PhD students employed at the division as well as four industrial PhD students.

The basic undergraduate/graduate education in Total Quality Management and its Supporting Methods has developed significantly in content, quality and quantity since 1984. Each year around 300 students read our basic TQM courses (given both in Swedish and in English) and 1997/98 35 students specialised in TQM (Offensiv kvalitetsutveckling). In 98/99 25 students specialised in TQM (more than 50% femals). The Division participates in the European Masters Programme in TQM. Bo Bergman was one of the initiator of this joint European program supported by E.F.Q.M., the European Foundation for Quality Management.

A Centre of Excellence is organised within the Division of Quality Technology and Management; a major activity in this centre is the co-ordination of industrial networks associated to some of the key research areas of the division. Today, around 60 enterprises and organisations participate in three networks on Process Management, Quality Function Deployment, and Design of Experiment and Robust Design Engineering.

Furthermore, the Division participates in two different “PhD-schools” supported by the Swedish Foundation for Strategic Research: the International School of Management and Industrial Engineering, (IMIE, ref Staffan Brege) and the Product Development PhD School, Endrea (ref Leif Larsson). We also co-operate within the Centre for research on Man, Technology and Organisation (CMTO, ref Per-Erik Ellström) and together with the University Hospital in a centre for Quality Improvement (CQ, ref Gunilla Rainer).

In the development of the division the associate professor Karl Edward Johansson, the PhD students and the administrative personnel have made important contributions. At the Division we try to practice what we preach; we have an active improvement programme and a strong process orientation.

Leader of the Department of Quality Sciences, Chalmers University of Technology

In 1998 the globally recognized company SKF with headquarter in Gothenburg, Sweden, decided to give support to Chalmers University of Technology to the development of a strong education and research basis within the quality field. In December 1998 Bo Bergman was appointed SKF Chair in TQM. Since 1999 the department has grown and consists of three senior positions, a secretary and eight PhD students (excl. 3 external PhD students). One PhD dissertation has been published as well as seven licentiate theses. A large

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number of Master theses have been supported. The research at the department is supported not only by SKF but also from an EU project (EURobust) as a part of an international IMS program, and by the Swedish Research Council. Support is also obtained from collaborative research partners in industry and in the Health Care sector. Bo Bergman is also an initiator of a 20 p course for people working with Quality Driven Organization Development in public organizations. In 2004 an International Masters Program in Quality Technology and Management was launched with Bo Bergman as the Program Director. The program is among the first programs at Chalmers created to fulfill the requirements of the Bologna declaration.

Educational Activities

Basic Education

Bo Bergman has lead courses in the quality field both in Linköping and at Chalmers; in Linköping the program consisted of a minor course and a specialisation in the Industrial Engineering and Mechanical Engineering programs. Fall 2004 a new international Masters programme in Quality Technology and Management at Chalmers has been launched with Bo Bergman as it's program director. The programme is a co-operation between department of Quality Sciences and the Division of Mathematical Statistics.. Bo Bergman has lead the development of following courses within the MSc program at Linköping University:

A main part of these courses and the educational material have been developed by Bo Bergman in co-operation with colleagues and PhD-students, see also the list of published books below.

Bo Bergman has also been a teacher/examiner in Mathematical Statistics (ref Georg Lindgren and Urban Hjort) and in Production Economics (responsible for a specialisation on System and Design Economics, ref Robert Grubbström)

Furthermore, Bo Bergman has participated as lecturer and guest lecturer in a large number of basic courses in Total Quality Management, Statistics, Reliability, Management etc. at Chalmers University of Technology and at Linköping University as well as at other Universities and University Colleges in Sweden and abroad.

Bo Bergman is, together with Andreas Hellström, responsible for a 20p course "Quality Driven Organisation Development" for the public Sector (esp . designed for quality and organisation developers in the Västra Götalands-regionen).

PhD education

Bo Bergman has been responsible (main lecturer and examiner) for the following PhD courses (a selected list):

- Total Quality Management in Learning Organizations
- Statistical Process Control
- Variation
- Customer Satisfaction
- Statistical Theory of Reliability
- Design of Experiments
- Robust Design Engineering
- Response Surface Methodology
- Applied Multivariate Analysis
- Creativity Research
- Quantitative Research Methods

Bo Bergman has also been the organizer and the main lecturer of summer schools (research level) on

- Reliability Engineering (Nordic Summer school, 1984)
 - Statistics for Quality Improvement (Swedish Statistical Society, 1995)
- and an organiser of the
- EOQ Summer School on Management Breakthrough at Chalmers, 200x.

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Industrial Courses

Bo Bergman has given a large number of seminars and courses to industrial participants both related to the activities within the industrial networks associated to the Center of Excellence and in other circumstances. A partial list of companies is given below:

- ABB (ref Göthe Wallin, Börge Lindén, Rolf Kjällgren)
- ABB Stal (ref Hans Lennart Olausson, Bertil Andersson)
- Luxor (ref Lindy Yngvesson, Jarl Bladelius)
- Saab Aircraft (ref Stig Rittsten, Ingemar Nycander, Bertil Almrot)
- Sandholm och Associates (ref Lennart Sandholm)
- SKF (ref Henning Wittmeyer, Allan Kruuka, Hans Baurmann, Magnus Johansson)
- Whirlpool (ref Bengt Engström, Lars Malmgren, Roland Ekinge)
- Swedish Material Command, Safety Management (FMV, ref Ragnar Ekholm)
- Six Sigma Black Belt Course (as part of the QTM program at Chalmers).
- VolvoCars, Volvo Powertrain, Volvo 3P etc.

Special course material has been developed for these courses. The CD-ROM referred to below was produced to this end in an EC-supported COMETT program.

Supervisor of the following PhD theses

- D1 Xie, Min (1987). *Some Contributions to Reliability Analysis*. PhD dissertation, Linköping Studies in Science and Technology. Dissertation No 167, Division of Quality Technology, Linköping University.
- D2 Shen, Kecheng (1990). *Some Approaches to System Reliability Improvement in Engineering Design*. PhD dissertation, ISRN LUTMDN/TMKT--90/1014, Department of Machine Design, Lund Institute of Technology, and Division of Quality Technology, Linköping University.
- D3 Pörn, Kurt (1990). *On Empirical Bayesian Inference Applied to Poisson Probability Models*. PhD dissertation, Linköping Studies in Science and Technology. Dissertation No 234, Division of Quality Technology, Linköping University.
- D4 Akersten, Per-Anders (1991). *Repairable Systems Reliability. Studied by TTT-plotting Techniques*. PhD dissertation, Linköping Studies in Science and Technology. Dissertation No 256, Division of Quality Technology, Linköping University.
- D5 Zhao, Ming (1994). *Nonhomogeneous Poisson Processes and their Applications in Software Reliability*. PhD dissertation, Linköping Studies in Science and Technology. Dissertations No 336, Division of Quality Technology, Linköping University.
- D6 Gustafsson, Anders (1996). *Customer Focused Product Development by Conjoint Analysis and QFD*. Linköping Studies in Science and Technology. Dissertation No. 418, Linköping University.
- D7 Hynén, Anders (1997). *On the Application of Experimental Design in Robust Design Engineering*. PhD thesis, Linköping Studies in Science and Technology. Dissertation No.466, Linköping University.
- D8 Sandvik Wiklund, Pia (1997). *Contributions to the Industrial use of Design of Experiments*. PhD thesis, Linköping Studies in Science and Technology. Dissertation No.471, Linköping University.
- D9 Lovén, Eva (1999). *Planned Change and Inertia - Integrating Technology, Organization and Human Aspects*. PhD thesis, Endrea PhD School, Linköping Studies in Science and Technology. Dissertation No.562, Linköping University.
- D10 Ekdahl, Fredrik (1999). *On the Application of Designed Experimentation for Customer Focused Product Development*, PhD Thesis, Dissertation no. 23, International Graduate School of Management and Industrial Engineering, Division of Quality Technology and Management, Linköping University. (The first IMIE PhD thesis)

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- D11 Kroslid, Dag (1999) *In Search of Quality Management – Rethinking and Reinterpreting*, PhD thesis, Dissertation No 27, International Graduate School of Management and Industrial Engineering, Linköping University.
- D12 Elg, Mattias (2001). *Performance Measures and Managerial Work – A modifies behavior setting approach to the usage of performance measures in managerial meetings*, PhD Thesis, Dissertation No. 53 International Graduate School of Management and Industrial Engineering, Linköping University.
- D13 Nilsson, Lars (2002). *Quality Practice – An Empirical Investigation of Product Development and the Goods-to-Services Continuum*, PhD Thesis, The Endrea PhD School, Dissertation No. 57, International Graduate School of Management and Industrial Engineering, Linköping Studies in Science and Technology Dissertation No. 738, Linköping University.
- D14 Arvidsson, Martin (2003). *Robust Design Experimentation and Dispersion Effects*, PhD Thesis, Department of Quality Sciences, Chalmers University of Technology, Gothenburg.
- D15 Fundin, Anders (2005). *Dynamics of Quality Attributes over Life Cycles of Goods and Services*, PhD Thesis, Division of Quality Sciences, Department of Technology Management and Economics, Chalmers University of Technology, Gothenburg.
- D16 Gremyr, Ida (2005). *Robust Design Methodology – A Framework and Supportive Methods*, PhD Thesis, Division of Quality Sciences, Department of Technology Management and Economics, Chalmers University of Technology, Gothenburg.
- D17 Chakhunashvili, Alexander (2006).
- D18 Lagrosen, Yvonne (2006).

Bo Bergman has also been a co-supervisor of PhD theses at Business Administration; Linköping University and at the Center for Service Research, University of Karlstad:

- Park Dahlgaard, Su Mi (2002). *The Human Dimension in TQM, Learning, Training and Motivation*, Linköping Studies in Management and Economics, Doctoral Dissertation No 55, Linköping University.
- Andersson, Hans (2002) *Organisering för individualitet, Ttransparenta och opaka aspekter i utvecklingsprocesser*, Linköping Studies in Management and Economics, Doctoral Dissertation No 57, Linköping University.
- Quist, Johan (2003). *Att Översätta TQM – en longitudinell studie kring reflekterande aktörer*, Karlstad University Studies, 2003:23

In addition, Bo Bergman has been one of the Examiners at the Executive PhD School, FENIX at Chalmers

- Sundgren, Mats (2004). *New Thinking, Management Control and Instrumental Rationality: Managing Organizational Creativity in Pharmaceutical R&D*. PhD dissertation, Fenix Research Program, Chalmers

Supervisor of the following licentiate of engineering theses

- L1 Akersten, Per-Anders (1985). *Några delvis försummade områden inom tillförlitlighetstekniken; underhållsmässighet, mänsklig tillförlitlighet, mekanisk tillförlitlighet, reparerbara system*. Licentiate of Engineering Thesis, LiU-Tek-Lic1995:22, Division of Quality Technology, Linköping University
- L2 Xie, Min (1986). *On some reliability problems*. Licentiate of Engineering Thesis, LiU-Tek-Lic1986:22, Division of Quality Technology, Linköping University.
- L3 Pörn, Kurt (1986). *Om osäkerhet och robusthet vid skattning av tillförlitlighetsparametrar i säkerhetsanalyser*. Licentiate of Engineering Thesis, LiU-Tek-Lic1986:8, Division of Quality Technology, Linköping University.

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- L4 Malmkvist, Erik (1990). *Selective Assembly – the Third Road to Variability Reduction*, Licentiate of Engineering Thesis, LiU-Tek-Lic1990:14, Division of Quality Technology, Linköping University.
- L5 Andersson, Roland (1990). *QFD – Ett system för effektivare produktframtagning (QFD – A System for More Effective Product Development)*, Licentiate of Engineering Thesis, LiU-Tek-Lic-1990:21, Division of Quality Technology, Linköping University.
- L6 al Najjar, Basim (1990). *Some Problems on the Selection of a Condition Based Maintenance Technique for Mechanical Systems*, Licentiate of Engineering Thesis, LiU-Tek-Lic1990:48, Division of Quality Technology, Linköping University.
- L7 Zhao, Ming (1991). *Software Reliability Models Based on Nonhomogeneous Poisson Processes*, Licentiate of Engineering Thesis, LiU-Tek-Lic1991:32, Division of Quality Technology, Linköping University.
- L8 Hakim-Mashhadi, Mohsen (1992). *On the Application of Design of Experiments to Accelerated Life Testing*, Licentiate of Engineering Thesis, LiU-Tek-Lic1992:15, Division of Quality Technology, Linköping University.
- L9 Sandvik Wiklund, Pia (1992). *Some Contributions to Industrial Design of Experiments*, Licentiate of Engineering Thesis, LiU-Tek-Lic1992:07, Division of Quality Technology, Linköping University.
- L10 Gustafsson, Anders (1993). *QFD and Conjoint Analysis: the Key to Customer Oriented Products*, Licentiate of Engineering Thesis, LiU-Tek-Lic1993:35, Division of Quality Technology, Linköping University.
- L11 Jönsson, Jerry (1994). *On Replacement Models for Finite Life Lengths*, Licentiate of Engineering Thesis, LiU-Tek-Lic1994:21, Division of Quality Technology, Linköping University.
- L12 Hynén, Anders (1994). *Robust Design Experimentation*, Licentiate of Engineering Thesis, LiU-Tek-Lic1994:53, Division of Quality Technology, Linköping University.
- L13 Gustafsson, Niclas (1995). *Comprehensive Quality Function Deployment - A Structured Approach for Design for Quality*, Licentiate of Engineering Thesis, LiU-Tek-Lic-1995:19/ISBN 91-7871-537-7, Linköping University.
- L14 Karlsson, Sören. (1995). *Kvalitetsutvecklingsprocessen*. Licentiate of Engineering Thesis, LiU-Tek-Lic-1995:32, Linköping University.
- L15 Sörensen Ringi, Mikael. (1995). *On Bayesian System Reliability Analysis*. Licentiate of Engineering Thesis, LiU-Tek-Lic.1993:22/ISBN 91-7871-548-2, Linköping University.
- L16 Loinder, Anders. (1996). *Processledning för ökad samverkan mellan företag*. Licentiate of Engineering Thesis, LiU-Tek-Lic-1996:06/ISBN 91-7871-677-2, Linköping University.
- L17 Rentzhog, Olof. (1996). *Core Process Management*. Licentiate of Engineering Thesis, LiU-Tek-Lic-1996:07/ISBN 91-7871-678-0, Linköping University.
- L18 Ekdahl, Fredrik. (1997). *Increased Customer Satisfaction Using Design of Experiments, Conjoint Analysis and QFD*, Linköping University, LiU-Tek-Lic-1997:33
- L19 Åkerlund, Ove. (1998). *Safety Correctness and Reliability Analysis of Complex Systems using Formal Methods*, Linköping University, LiU-Tek-Lic-1997:53.
- L20 Forsberg, Torbjörn. (1998). *Process Orientation and Measurements*, Linköping University, LiU-Tek-Lic-1998:22
- L21 Kroslid, Dag. (1998). *Quality Management – National or Global Driving Factors?* Linköping University, LiU-Tek-Lic-1998:14
- L22 Elg, Mathias. (1999). *Exploring Quality Improvement Activities in Product Development*, Licentiate Thesis, Dissertation no. 28, International Graduate School of Management and Industrial Engineering, Division of Quality Technology and Management, Linköping University.

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- L23 Nilsson, Lars. (1999). *Process Orientation in Product Development*, Licentiate Thesis, Dissertation no. 29, International Graduate School of Management and Industrial Engineering, Division of Quality Technology and Management, Linköping University
- L24 Engelhardt, Fredrik. (2000). *Using Engineering Design Methodology for Robust Product Development* Licentiate Thesis, Linköping Studies in Science and Technology Thesis no. 805, Endra PhD School, Division of Quality Technology and Management, Linköping University
- L25 Antoni, Marc (2000). *Inter-Project Learning – A Quality Perspective*, LiU-Tek-Lic-2000:35, Division of Quality Technology and Management, Linköping University, Linköping
- L26 Cronemyr, Peter (2000). *Towards A Learning Organization for Product Development*, LiU-Tek-Lic-2000:53, Division of Quality Technology and Management, Linköping University, Linköping
- L27 Persson, Per. (2000). *Industrial Statistics in Product Development*, Licentiate Thesis, Linköping Studies in Science and Technology Thesis no. 805, Division of Quality Technology and Management, Linköping University.
- L28 Hübinette, Lars. (2000). *Software Fault Prediction*, Department of Total Quality Management, Chalmers University of Technology, Göteborg.
- L29 Arvidsson, Martin. (2000). *Dispersion Analysis in Robust Design Experimentation*, Department of Total Quality Management, Chalmers University of Technology, Göteborg.
- L30 Kammerlind, Peter. (2000).* *On the Use of Design of Experiments in Systems Engineering*, Licentiate Thesis, Linköping Studies in Science and Technology Thesis no. 856, Division of Quality Technology and Management, Linköping University.
- L31 Ekros, Jens-Pedrer (2000). *Quality in Software Development – Methods for Fault Prediction and Cause Analysis*, LiU-Tek-Lic-2000:53, Division of Quality Technology and Management, Linköping University, Linköping
- L32 Gauthereau, Vincent (2001). *Towards a System for Managing Organisational Factors of Safety under operation - insights form the Quality Movement*, LiU-Tek-Lic-2001:10, Quality and Human Systems Engineering, Linköping University, Linköping.
- L33 Olsson, Jesper (2002). *Factors of Importance for Understanding Successful Improvement Initiatives in Swedish Health Care*. Lic No 3, Department of Total Quality Management, Chalmers University of Technology, Sweden.
- L34 Gremyr, Ida (2002). *Towards Increased Awareness of Variation in Product Development*, Lic No 4, Department of Total Quality Management, Chalmers University of Technology, Sweden.
- L35 Fundin, Anders (2003). *Dissatisfaction as a driving Factor*, Lic No 5, Department of Total Quality Management, Chalmers University of Technology, Sweden.
- L36 Chakhunashvili, Alexander (2003). *On Variation Management -Three Statistical-Engineering Methods in Production and Product Development*, Lic No 6, Department of Quality Sciences, Chalmers University of Technology, Sweden.
- L37 Lagrosen, Yvonne (2003). *Values and Practices of Quality Management, Organisational differences and effects on health*, Lic No 7, Department of Quality Sciences.
- L38 Mauléon, Christina (2004). *Recapturing the Spirit of Quality*, Lic No 8, Department of Quality Sciences.
- L39 Johansson, Per (2004). *Towards Improving Reliability by Managing Variation*. Lic No 9, Department of Quality Sciences
- L40
- L41

External examiner ("opponent") of the following PhD theses

- Andersson, G. (1981). *Some Contributions to Acceptance Sampling Control*, PhD dissertation, Mathematical Statistics, Royal Institute of Technology, Stockholm.
- Aven, T. (1983). *Contributions to Failure Time Data Analysis and Optimal Maintenance Panning*, Thesis submitted for the degree of Doctor of Philosophy at the University of Oslo, Institute of Mathematics.
- Nilsson, L (1985). *Estimation from Accelerated Life Tests with increasing Stress*, PhD dissertation, Department of Mathematical Statistics, University of Umeå.
- Lydersen, S (1988). *Reliability Testing Based on Deterioration Measurements*, PhD dissertation, Mathematical Statistics, Norwegian Institute of Technology, University of Trondheim.
- Carlsson, O. (1990). *On Quality Selection*, PhD dissertation. Statistical Studies No 16, Department of Statistics, University of Umeå
- Onsøyen, E (1990). *Accelerated Testing and Mechanical Evaluation of Components Exposed to Wear*, PhD dissertation, Norwegian Institute of Technology, University of Trondheim.
- Kornerup Hansen, C (1991). *Statistical Methods in the Analysis of Repairable Systems Reliability*, PhD afhandling nr 56, Institute of Mathematical Statistics and Operations Research, Danish Technical University, Lyngby. IMSOR DTH
- Bodsberg, L (1993). *VULCAN – A Vulnerability Calculation Method for Process Safety Systems*, PhD dissertation, Dr-ing avh 1993:115, Institutt for Matematiske Fag, University of Trondheim.
- Lövås, G. G. (1994). *Mathematical Modelling of Emergency Evacuations*, Thesis presented for the degree of Doctor Scientiarium, Department of Mathematics, Statistics Division, Oslo Universitet.
- Grönlund, U. (1996). *Quality Improvements in Forest Products Industry*, Doctoral Thesis, Division of Quality Technology and Statistics, Luleå University of Technology.
- Johannesson, C. G. (1996). *Quality Management in the Library and Information Service Sector*, PhD thesis, The Aarhus School of Business, Department of Total Quality Management.
- Saers Bigün, E. (1997). *Baysian Risk Analysis of Rare Events, such as Catastrophes, by means of Expert Assesments*, PhD thesis, Stockholm University, Department of Statistics.
- Lagrosen, S. (1997). *Kvalitetsstyrning i skolan?* PhD thesis, Department of Business Administration, Stockholm University.
- Hunt, R. A. (1997). *Innovation and Strategy; An Empirical Study of Quality Deployment Methodologies*, Dissertation, Graduate School of Management, Macquarie University, Sydney, Australia.
- Kauolio, M. (1997). *Customer-Focused Product Development, A Practice-Centered Approach*, School of management and Economics, Chalmers University of Technology, Göteborg.
- Albaek Hansen, T. (1998). *Nogle konsekvenser af virksomheders anvendelse af DS/ISO 9000-kravstandarderne*, PhD-Dissertation, The Aarhus School of Business, Aarhus, Denmark.
- Pastinen, M. (1998). *Process Improvement Essentials, A Framework for Creating and Implementing Operational Improvement Plans*, PhD-Dissertation, Helsinki University of Technology, Finland.
- Huele, A. F. (1998). *Statistical Robust Design*, PhD Thesis, Institute of Business and Industrial Statistics, University of Amsterdam.
- Simola, K. (1999). *Reliability methods in nuclear power plant ageing management*, PhD Thesis, Department of Technical Physics and Mathematics, Systems Analysis Laboratory, Helsinki University of Technology, Espoo, Finland.
- Einarsson, S. (1999). *Vulnerability and risk analysis of complex industrial systems; A new approach and discussion of main problem areas*. PhD Thesis, Department of Machin Design, NTNU, Trondheim

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- Wang Hui (2000). *Some new approaches to IT service quality & QFD analysis*, PhD Thesis, Systems Engineering Department, National University of Singapore, Singapore.
- Beskow, Cecilia (2000). *Integrated Product Development*, Department of Machine Design, Royal Institute of Technology, Stockholm.
- Gapp, R.(2000). *The System of Profound Knowledge as a Method of Establishing Self-Managed teams within an Existing TQM Environment*, PhD Thesis, School of Marketing and Management, Griffith University, Australia.
- Apeland, Sigve (2001). *Risk Based Maintenance Decisions –A Subjectivistic Approach*, PhD Thesis, University College of Stavanger
- Eskildsen, Jacob Kjaer (2002). *The Use of Survey Data in Organisational Self-Assessment*, PhD Thesis, Department of Information Science, The Aarhus School of Business.
- Kujala, Jaakko (2002). *Total Quality Management as a Cultural Phenomena – A Conceptual Model and Empirical Illustration*, PhD Thesis, HUT Industrial Management and Work and Organisational Psychology, report No 25, Helsinki University of Technology.
- Espelund Pedersen, Thomas (2003). *Statistical Analysis of the Reliability of Complex Systems for Maintenance Planning*, PhD Thesis, Department of Informatics and Mathematical Modelling, Technical University of Denmark, Lyngby.
- Berling, Tomas (2003). *Increasing Product Quality by Verifacation and Validation Improvements in an Industrial Setting*, Teletransmission System, Lunds Tekniska Högskola, Lund.

Furthermore, Bo Bergman has been a member of the examination committee of a large number of PhD theses in e.g. the following research areas:

- Assembly Engineering
- Business Administration
- Computer Science
- Control Theory
- Engineering Materials
- Industrial Marketing
- Information Science
- Logistics
- Management of Technology
- Mathematical Statistics
- Production Economics
- Quality Technology
- Statistics
- Telecommunication Theory

External examiner ("diskutant") of Licentiate theses

- Wiklander, K. (1994). *Models for Dispersion Effects in unreplicated Two-Level Factorial Experiments*. Licentiate Thesis, Department of Mathematics, Chalmers University of Technology, Göteborg, Sweden.
- Carlson, J. S. and Ahlmark, T. (1997). *Production Quality Improvements Using Statistical and Geometrical Analysis of Car Body Measurements*, Licentiat Thesis, Research Report, 1997:34, (Mathematical Statistics and Applied Mathematics, respectively), Department of Mathematics, Chalmers University of Technology, Göteborg.
- Svensson, Johan (2004). Licentiate Thesis, Department of Mathematics, Chalmers University of Technology, Göteborg, Sweden.

PUBLICATIONS

PhD dissertation

1. Bergman, B. (1978). Some contributions to the statistical theory of reliability. PhD dissertation, Mathematical Statistics, University of Lund.

Papers in Refereed Journals and Book Chapters

2. Bergman, B. (1977). Crossings in the total time on test plot, *Scand. J. Statist.*, 94, 171-177.
3. Bergman, B. (1978). Optimal replacement under a general failure model, *Adv. Appl. Prob.*, 10, 431-451.
4. Bergman, B. (1979). On age replacement and the total time on test concept, *Scand. J. Statist.*, 6, 161-168.
5. Bergman, B. (1980). On the optimality of stationary replacement strategies, *J. Appl. Prob.*, 17, 178-186.
6. Bergman, B. (1980). On a general asymptotic independence result in statistics, *Ann. Prob.*, 10:3, 831-837.
7. Bergman, B. (1980). On the decision to replace early or late - a graphical solution, *Microelectronics and Reliability*, 20, 895-896.
8. Bergman, B. (1981). On the probability of failure in the chain-of-bundles model, *J. Comp. Mater.*, 15, 92-98.
9. Bergman, B. (1981). Tests against certain ordered alternatives in the multinomial distribution, *Scand. J. Statist.*, 8, 4, 218-226.
10. Bergman, B. (1981). On the safety assessment of electro-explosive devices, *Reliability Engineering*, 3, 193-202.
11. Bergman, B. and Klefsjö, B. (1982). A graphical solution to the age replacement problem, *IEEE tr. on Reliability*, R31, 5, 478-481.
12. Bergman, B. and Klefsjö, B. (1983). TTT-transform and age replacement with discounted costs, *Naval Res. Log. Quart.*, 30, 631-639.
13. Bergman, B. and Klefsjö, B. (1984). The total time on test concept and its use in reliability theory, *Operations Research*, 32, 596-606.
14. Bergman, B. and Klefsjö, B. (1985). Total time on test transform, in *Encyclopedia of Statistics*, Ed. Johnson and Kotz.
15. Bergman, B. and Klefsjö, B. (1985). Burn-in models and TTT-transforms, *Quality and Reliability Eng. Int.*, 1, 125-130.
16. Bergman, B. (1985). On reliability theory and its applications (with discussion), *Scand. J. Statist.*, 12, 1-42.
17. Bergman, B. and Klefsjö, B. (1985). Testing against HNBUE with randomly censored data, in *Contributions to probability and statistics in honour of Gunnar Blom*, ed. J. Lanke and G. Lindgren, Studentlitteratur, Lund 1985, 49-72.
18. Bergman, B. and Rise, J. (1985). A Cusum acceptance control chart for reliability acceptance testing, in *Contributions to probability and statistics in honour of Gunnar Blom*, ed. J. Lanke and G. Lindgren, Studentlitteratur, Lund 1985, 78-83.

Curriculum Vitae, Bo Bergman

19. Aven, T. and Bergman, B. (1985). Optimal replacement times - a general set-up, *J. Appl. Prob.*, 23, 432-442.
20. Bergman, B. and Klefsjö, B. (1987). The TTT-concept and replacements to extend system life, *European Journal for Operations Research*, 28, 302-307.
21. Bergman, B. (1987). On an improved acceptance control chart, in *Frontiers in Statistical Quality Control*, ed.
22. Bergman, B. and Klefsjö, B. (1989). A family of test statistics for detecting monotone mean residual life, *J. Statist. Plan. and Inf.*, 21, 161-178.
23. Bergman, B. (1989). On robust design methodology for reliability improvement. In *Reliability Achievement - The Commercial Incentive*, ed. T. Aven, Elsevier, London, pp.72-79.
24. Bergman, B. and Klefsjö, B. (1989). Discussion to Ansell, J.J & Philips, M.J. (1989). Practical problems in the statistical analysis of reliability data, *J. Royal Statist. soc. Ser C (Applied Statistics)*, 38, 205-247.
25. Xie, M. and Bergman, B. (1989). On a general importance measure of component importance. *J. Statist. Planning and Inference*.
26. Bergman, B. and Holmqvist, L. (1989). A Swedish Program on Robust Design and Taguchi Methods, in *Taguchi Methods*, ed. T. Bendell, Elsevier.
27. Bergman, B. and Xie, M. (1989). On Bayesian software reliability models, *J. Statist. Plan. and Inf.* 29, 33-41.
28. Bergman, B. and Klefsjö, B. (1990). Statistical engineering for quality and productivity improvement, *European Journal for Engineering Education*, 15:3, 257-266.
29. Bergman, B. and Hakim, M. (1991). Accelerated life testing for reliability improvement, in Folkesson, A. and Holmberg, K. (1991). *Operational Reliability and Systematic Maintenance*, Elsevier.
30. Bergman, B. Johansson, K-E (1991). Quality Technology Education and Research at Linköping University. *European Journal of Engineering Education*, 16:2
31. Bergman, B. (1992). The Development of Reliability Techniques: a Retrospective Survey. *Reliability Engineering and System Safety*, 36, 3-6.
32. Bergman, B and Klefsjö, B (1994). Statistics and TQM in industrial continuing education, *International Journal of Continuing Engineering Education*, 4, 114-121.
33. Bergman, B & Sörensen Ringi, M. (1995). A Control Chart for Reliability Monitoring, *IAPQR Transactions*, vol 20, 37-49.
34. Bergman, B. (1995). Quality in Academic Leadership: a Contribution to the Discussion, *Total Quality Management*, 6:5&6, 487-496.
35. Bergman, B & Sörensen Ringi, M. (1997). System Reliability Prediction using Data from Non-Identical Environments. *Reliability Engineering and System Safety* 58, 185-190.
36. Helmersson, G., Hede, A., Bergman, B. & Hallén, H. (1997). On the Control of Powder-Size Distribution in Full-Scale Gas Atomization of Nickel-Based Alloys. *Scandinavian Journal of Metallurgy*, 26, 93-101.
37. Bergman, B. and Hynén, A. (1997). Dispersion Effects from Unreplicated Designs in the 2^{k-p} Series. *Technometrics*, 39(2).
38. Gustafsson, A., Ekdahl, F. and Bergman, B. (1997). Conjoint Analysis – a Useful Tool in the Design Process, *TQM*,
39. Blomkvist, O., Hynén, A., and Bergman, B. (1997). A Method to Identify Dispersion Effects from Unreplicated Multilevel Experiments. *Quality and Reliability Engineering International*, 13(2).

Curriculum Vitae, Bo Bergman

40. Bergman, B., Ekdahl, F. and Wiklund, P. S. (1997). A Comparison of Selection Procedures for Finding Active Contrasts in Unreplicated Fractional Factorial Designs. *Computational Statistics and Data Analysis*, 29(2), 573-582.
41. Bergman, B & Sörensen Ringi, M. (1997). Bayesian System Reliability Prediction, *Scand J Statist.* 24(1), 137-143.
42. Bergman, B. & Klefsjö, B. (1997). Recent Applications of the TTT-Plotting Technique, to appear in a book chapter (ed A.P. Basu).
43. Bergman, B. & Klefsjö, B. (1997). Total Time on Test Plots, to appear in a new edition of *Encyclopedia of Statistics*.
44. Bergman, B. & Hynén, A. (1998). On Dispersion Effects and Their Identification, in Park, S. ed (1998), *Statistical Process Control*
45. Gustafsson, A., F. Ekdahl and B. Bergman (1999). "Conjoint Analysis - A Useful Tool in the Design Process". *Total Quality Management* 10(3): 327-343
46. Bergman, B, Klefsjö, B. Edgeman, R, & Dahlgaard, J. J. (1999). TQM in Sweden, *Quality Engineering*.
47. Sandvik, P. & Bergman, B. (1999). Finding Active Factors from Unreplicated Fractional Factorials Utilizing the Total Time on Test (TTT) Technique, *Qual. Reliab. Engng Int* 15: 191-203.
48. Bergman, B and Ekdahl, F. (1999). Understanding variation, a contribution to a discussion on Statistics for general management, *International Statistical Review*.
49. Sandvik, P. & Bergman, B. (1999)*. Finding Active Factors from Unreplicated Fractional Factorials Utilizing the Total Time on Test (TTT) Technique, *Qual. Reliab. Engng Int* 15: 191-203.
50. Pewrsson, P., Kammerlind, P., Bergman, B., Andersson, J. (2000) A methodology for multi-characteristic system improvement with active expert involvement *Qual. Reliab. Engng Int* 16 (5): 405-416 SEP-OCT 2000
51. Akersten, P.A., Bergman, B., and Klefsjö, B. (2001). Graphical Techniques for Analysis of Data from Repairable Systems, in Balakrishnan, N. and Rao, C.R., *Handbook of Statistics, Vol 20, Advances in Reliability.*, Elsevier Science B. V.
52. Arvidsson, M., Kammerlind, P., Bergman, B., Hynén, A. (2001) Identification of Factors Influencing Dispersion in Split-Plot Experiments, *Journal of Applied Statistics*, 28(3-4), 269-283
53. Gauthereau, V., Hollnagel, E., and Bergman, B. (2001). Managing Variability – A Strategy for creating Safety in Organisations? *Arbete, Människa, Miljö & Nordisk Ergonomi*
54. Park Dahlgaard, Bergman, B. and Hellgren, B. (2001). Reflections on TQM, Part I: A Historical Perspective, Chapter 19 in *The Best on Quality*, IAQ Book Series, Vol 12, International Academy for Quality.
55. Park Dahlgaard, Hellgren, B. and Bergman, B. (2001). Reflections on TQM, Part II: A Historical Perspective, Chapter 20 in *The Best on Quality*, IAQ Book Series, Vol 12, International Academy for Quality.
56. Park Dahlgaard, Bergman, B. and Hellgren, B. (2001). TQM – Managerial fad or a case of social becoming, in *Management in the thought-full enterprise, European Ideas on Organizing*, ed. Bo Hellgren & Jan Löwstedt, Fagbokförlaget.
57. Gauthereau, V., Hollnagel, E., and Bergman, B. (2001). Managing Variability – A Strategy for creating Safety in Organisations? *Arbete, Människa, Miljö & Nordisk Ergonomi*
58. Fundin, A. and Bergman, B. (2002) Exploring the customer feedback process, *Measuring Business Excellence*, 7(2), 55-65

Curriculum Vitae, Bo Bergman

59. Eklund, J. and Bergman, B (2003) Developing work and quality improvement strategies: an introduction, *AI & Society*, 17:65-70.
60. Bergman, B. (2003). On the Profound Knowledge of Variation, *Chapter 1 in Six Sigma and related Studies in the Quality Disciplines*, The Best on Quality Book Series of the International Academy for Quality, Vol 14, International Academy for Quality, ASQ Press.
61. Bergman, B., and Mauléon, C. (2003). Continuous Improvement and Its roots in Pragmatic Philosophy, *The Asian Journal on Quality*, 4 (1)
62. Arvidsson, M., Gremyr, I. and Bergman, B. (2005). Interpretation of Dispersion Effects in a Robust Design Context, *conditionally accepted by Journal of Applied Statistics*
63. Bergman, B. and Chakhunashvili, A. (2007). In weak statistical control? *Int. J. Six Sigma and Competitive Advantage*, 3:1, 91-101.
64. Chakhunashvili, A., Ipate, A., Bergman, B (2006). Revisiting Shewhart's Criteria for Detecting the Presence of Assignable Causes of Variation, to appear.

Conference papers (partial list)

65. Bergman, B. (1977). Some graphical methods for maintenance planning, in *Proceedings from 1977 Annual Reliability and Maintainability Symposium*, 467-471, SIAM, Philadelphia.
66. Bergman, B. (1979). A Bayesian approach to system and subsystem reliability, in *Proceedings from the Second National Conference on Reliability*, Birmingham 1979, paper 4D12.
67. Bergman, B. (1980). On some recent advances in replacement theory, in *Proceedings from the 6:th Advances in Reliability Technology Seminar*, vol 1, 363-372.
68. Svensson, K-E. and Bergman, B. (1981). Tillgänglighet och servicekostnad (Availability and Service Costs), in *Proceedings from SRE-81*, Stockholm.
69. Bergman, B. (1981). Synpunkter på testers inverkan på funktionssäkerheten (On the influence of tests on Availability Performance), in *Proceedings from SRE-81*, Stockholm.
70. Bergman, B. (1983). On a cusum acceptance control chart, in *Transaction from seminar on computer aided sampling inspection*, Frankfurt, January 1983.
71. Bergman, B. (1985). On some new reliability importance measures, in *Proceedings from SAFECOMP'85*, ed. W.J. Quirk.
72. Bergman, B. (1986). On the analysis of failure processes, in *Proceedings from "Internationale Konferenz, Qualitätssicherung im Transport und Nachrichtenwesen"*, Dresden.
73. Xie, M. and Bergman, B. (1988). On modelling reliability growth for software. *Proc. IFAC Symp. on Identification & System Parameter Estimation*. Beijing, China, Aug. 27-31, 1988.
74. Bergman, B. (1989). The quality strategy and methods to support it, in *Proceedings from Quality Management Forum*, E.F.Q.M., Montreux.
75. Bergman, B. Gustafsson, A. and Gustafsson, N (1991). Quality Function Deployment as a tool for improving a course in Total Quality Management and Methodology. *Deuxième Symposium Renault-Volvo de la Qualité: Management et Techniques Avancées*, Paris. (Also an internal report LiTH-IKP-R-674).
76. Bergman, B (1993). Quality systems and progressive thinking, in *Proceedings from the First Ming Chuan Conference on Advances in Quality Systems*, Taipei, Aug 19-20 1993.
77. Bergman, B (1993). Total Quality Management and Statistics in Engineering Education, in *Proceedings from the 49th Session of ISI*, Florence, Aug 1993.

Curriculum Vitae, Bo Bergman

78. Bergman, B (1993). Quality in academic leadership, a contribution to the discussion, in *Proceedings from EC seminar on TQM in higher education institutions*, October 11-12 1993, Aarhus.
79. Bergman, B (1994). TQM in higher education, in *Proceedings from the 38th EOQ Conference*, Lisbon.
80. Bergman, B. (1995). On the use of QFD in Europe, in *Proceedings from the 1st International Symposium on QFD*, Tokyo.
81. Bergman, B. and Hynén, A. (1995). On Dispersion Effects: Modeling, Estimation and Testing in Unreplicated Fractional Factorial Designs. In *Proceedings from the International Conference on Statistical Methods and Statistical Computing for Quality and Productivity Improvement (ICSQP '95). Volume I: Invited Papers* (pp. 91-98). Seoul, Korea. The Korean Statistical Society, Seoul, Korea.
82. Gustafsson, A., F. Ekdahl and B. Bergman (1996). Conjoint Analysis - A Useful Tool in the Design Process. *The 8:th Symposium on Quality Function Deployment and the 2nd International Symposium on QFD, ISQFD '96*, Novi, Detroit, ASQC.
83. Bergman, B., Ekdahl, F. and Wiklund, P. S. (1997). A Comparison of Selection Procedures for Finding Active Contrasts in Unreplicated Fractional Factorial Designs. In *The 2nd World Conference of IASC*. Pasadena, California.
84. Bergman, B. (1997). Some Bayesian Techniques for Risk Assessments, Invited paper, *Bulletin of the International Statistical Institute, 51st Session, Proceedings, Tome LVII, Book 1*.
85. Bergman, B. (1997). The Leading Edge in Innovation, Seminar at Macquarie University Graduate School of Management, Sydney, sponsored by State and Regional Development, South Wales and Ausindustries, Australia.
86. Bergman, B. (1997). Kvalitetsrörelsen – en ideologi? (The Quality Movement, an ideology?) in *Proceedings from Kvalitetsträffen* (The Linköping Quality Summit).
87. Bergman, B. (1997). Kvalitetsrörelsen som ram för forskning (The Quality Movement as a framework for research), seminar presented to the Scientific Board of SIQ.
88. Elg, M., Nilsson, L. and Bergman, B. (1998). Managing Ideas for the Development of New Products, in *Proceedings from the Innovation and Strategy Conference*, Sydney, August 1998.
89. Ekros, J.-P., Subotic, A., and Bergman, B. (1998). Capture-Recapture – Models, Methods, and the Reality, *23rd Annual NASA SE Workshop*, NASA/Goddard Space Flight Center, Greenbelt, Maryland, December 1998.
90. Bergman, B. (1999). Barriers to Statisticians taking the Industrial Challenge, Invited Paper, in the *Proceedings from the 52nd Session of the International Statistical Institute*, Helsinki August 1999.
91. Bergman, B. (1999). The Profound Knowledge of Variation; its importance in Economic Development, *Key Note Speech at the 2nd QMED Conference*, Portoroz, Slovenia.
92. Gauthereau, V. and Bergman, B. (2000). Safety from a TQM perspective. *Foresight and Precaution – Proceedings of ESREL 2000, SARS and SRA Europe Annual Conference*, ed M.P. Cottam, D. W. Harvey, R. P. Pape, and J. Tait, Edinburgh, A.A. Balkema 2: 1237-1244.
93. Bergman, B. (2000). Six Sigma – a revival of the profound knowledge of variation? In *Proceedings of the 3rd International conference on Building People and Organizational Excellence, QMED 2000*, ed J J Dahlgaard and Su Mi Park Dahlgaard, Aarhus, 20-22 August 2000.
94. Bergman, B. (2001). Jakten på variation. Förståelse för variation – en nyckel till både industriell framgång och till en modern världsbild. *Six Sigma 2001, En konferens om resultatnriktat förbättringsarbete*, Norra Latin, Stockholm 22 Maj 2001.
95. Bergman, B. (2001). On the Economics of Quality Initiatives, Nordic Automotive Conference, Strategier för långsiktig lönsamhet, Fordonskomponentgruppen, Jönköping, April 24-25, 2001.

Curriculum Vitae, Bo Bergman

96. Bergman, B. and Quist, J. (2001). Managing Sense of Self-Assessment to Reach Business Excellence, in *Proceedings from World Quality Congress*, St Petersburg, June 2001.
97. Bergman, B. (2001). Kvalitetsutveckling och sex sigma, Plenary Session Speech, *PLANs 3:e Forsknings och tillämpningskonferens*, Göteborg, 16-17 augusti 2001.
98. Bergman, B. (2001). The Profound Knowledge of Variation, Keynote Speech (Silver Jubilee Speech). *Proceedings from the 4th QMOD Conference*, Linköping, ed Jens Jörn Dahlgaard and Su Mi Park Dahlgaard.
99. Bergman, B. (2001). Har kvalitetsarbetet en vetenskaplig grund?, Keynote speech, *Konferensen kvalitet i klassrum och skola.*, Malmö, November 23, 2001.
100. Bergman, B. (2002). Uthålligt förbättringsarbete – varför syns det inte tydligare i svensk industri? Presentation vid *SIQ-konferensen Vinnande Ledarskap*, 5-6 februari 2002..
101. Johansson, P., Gremyr, I., Fundin, A., Bergman, B. (2002), Beyond Root-Cause Analysis, in the *Proceedings of the Annual Reliability and Maintainability Symposium (RAMS)*, January, Seattle., 2002, Seattle, USA.
102. Fundin, A. and Bergman, B. (2002) “Exploring the customer feedback process”, in *Proceedings of the 3rd Multinational Alliance for the Advancement of Organisational Excellence (MAAOE)*, September, Ayr, Scotland.
103. Chakunashvili, A., Hübinette, L. & Bergman, B. (2002). Predicting Digester Hang-up by using a V-Transformation and a Multivariate EWMA Control Chart, in *Proceedings from the Second Annual Conference on Business and Industrial Statistics*, Rimini, Italy, September 23-24, 2002
104. Mauléon, Christina & Bergman, Bo (2002). On the Theory of Knowledge and its Role in the Quality Movement, in *Poceedings from QMOD 2002, Quality Management and Organisational Developmen*, Ed. Dahlgaard and Park Dahlgaard, Pusan, South Korea
105. Bergman, Bo (2002). "The Evolution of the Quality Movement and its Challenges to the Reliability Community"; Plenary Lecture in Honor of Professor Arnljot Höyland at the conference *MMR 2002, Mathematical Methods in Reliability*, Trondheim
106. Bergman, B. (2002). "The Human Dimension in Six Sigma", Concluding Key Note Speech, QMOD 2002, Quality Management and Organisational Development, Pusan, South Korea.
107. Bergman, B (2002). "The Evolution of the Quality Movement and its Challenges for the Future" Key Note Speech at QUIS 8, Quality in Services, Victoria, Canada
108. Chakhunashvili, A., Johansson, P., and Bergman, B. (2003). *Variation Mode and Effect Analysis*, The Annual Conference on Business and Industrial Statistics (ENBIS3 / ISIS3), August, 2003, Barcelona
109. Arvidsson, M., Gremyr, I., and Bergman, B. (2003) *A Discussion of the Interpretation of Dispersion Effects*, The Annual Conference on Business and Industrial Statistics (ENBIS3 / ISIS3), August, 2003, Barcelona

Miscellaneous popular papers (partial list)

110. Bergman, B. (1986). Kvalitet - Hur kan den styras? (Quality - how to control?), *Industri & Utveckling*, 4:7, 27-29.
111. Bergman, B. (1987). Robust konstruktion och Taguchimetoder (Robust design and Taguchi methods), *Verkstäderna*, 1987:7, 37-40.
112. Bergman, B. (1987). Changing Role, Changing education, *Quality Progress*, Nov. 1987, 35-36.

Curriculum Vitae, Bo Bergman

113. Andersson, R. and Bergman, B. (1989). Kundcentrerad planering (Quality Function Deployment), *Verkstäderna*, 1989:6, 20-23.
114. Bergman, B and Klefsjö, B. (1991). Terminologivalet viktigt i kvalitetsarbetet (Terminology is Important for Quality Improvement Work), *Kvalitets-nytt*, 1991, september, 3, 10.
115. Bergman, B and Klefsjö, B. (1991). Kvalitet höjer produktivitet (Quality for increasing productivity), Ord mot ord, *Svenska Dagbladet*, 1991.
116. Bergman, B and Klefsjö, B (1993). ISO 9000 kräver ständiga förbättringar (ISO 9000 needs continuous improvements), *Svenska Dagbladet*, Sept. 3, 42.
117. Bergman, B and Klefsjö, B (1993). Kvalitet är mer än ISO 9000 (Quality is more than ISO 9000), *Kvalitetsmagasinet*, 1993:3, 34-35.
118. Bergman, B and Klefsjö, B (1993). Offensiv Kvalitetsutveckling (Total Quality Management), *Dagens Industri*, Nov. 11, Appendix for World Quality Day, 12-13.
119. Bergman, B and Klefsjö, B (1993). ISO 9000 räcker inte! (ISO 9000 is not enough), *Ny Teknik*, 1993:Nov. 25, 2.
120. Bergman, B and Klefsjö, B (1994). Offensiv Kvalitetsutveckling i Lärande Organisationer (Total Quality Management in Learning Organisations), *Kvalitetsnytt*, Nov.
121. Bergman, B and Klefsjö, B (1995). Kvalitetsutveckling för morgondagen. (Quality Improvement for Tomorrow) A chapter in the book *Kvalitet som konkurrensmedel*, (Quality as a means for Competition) Informationsförlaget, Stockholm, pp16-25.
122. Bergman, B. (1997). Förståelse för Variation (Understanding Variation) in *Mötesplats Ständiga Förbättringar*, SAF (A Newsletter for A Programme on Continuous Improvement, the Swedish Association of Employers)
123. Bergman, B. (1998). Continuous Improvement, its Evolution and Role in the Quality Movement, to appear in a book on Continuous Improvement, Centre for research on Man, Technology and Organisation (CMTO), Linköping University.
124. Axelsson, J and Bergman, B. (1999). Offensiv kvalitets- och arbetsutveckling, In Nilsson, T. ed. (1999). *Ständiga förbättringar - om utveckling av arbete och kvalitet*, Arbetslivsinstitutet, Stockholm.
125. Persson, P. , Kammerlind, P. , Bergman, B., Andersson, J. (2000). A Methodology for Multi-Characteristi system Improvement with active Expert Involvement, to appear.
126. Ekros, J.-P., Hübinette, L., and Bergman, B. (2000). On using scores test for analysing the fault distribution among software modules.

Books

- B1 Bergman, B. and Klefsjö, B. (1986). *Statistisk kvalitetsstyrning* (Statistical Quality Control), Studentlitteratur, Lund.
- B2 Bergman, B. and Klefsjö, B. (1987). *Övningsbok till statistisk kvalitetsstyrning* (Exercises in Statistical Quality Control), Studentlitteratur, Lund.
- B3 Bergman, B. and Klefsjö, B. (1990, 1995, 2001 3rd ed). *Kvalitet från behov till användning* (Quality from customer needs to customer satisfaction), Studentlitteratur, Lund.
- B4 Bergman, B. and Klefsjö, B. (1990). *Kvalitet i alla led* (Quality all the way), Studentlitteratur, Lund.
- B5 Bergman, B and Klefsjö, B (1991, 1998). *Tillförlitlighet* (Reliability), compendium to appear as a book from Studentlitteratur, Lund.

Curriculum Vitae, Bo Bergman

- B6 Bergman, B. (1992). *Industriell Försöksplanering och robust konstruktion* (Industrial Design of Experiments and Robust Design), Studentlitteratur, Lund.
- B7 Bergman, B. and Klefsjö, B. (1994, 2003 2nd ed). *Quality from Customer Needs to Customer Satisfaction*, McGraw-Hill, London.
- B8 Magnusson, K., Kroslid, D., and Bergman, B. (2000, 2003 2nd ed.). *Six Sigma, the pragmatic approach*, Studentlitteratur, Lund (also in German, Carl Hansen Verlag, and Chinese translations).
- B9 Bergman, B. and Klefsjö, B. (2001). *Kvalitet från behov till användning*, 3:utgåvan, Studentlitteratur, Lund.

Proceedings (Co-Editor)

- Proc 1 Gustafsson, A. and Bergman, B. eds. (1997). *Proceedings from the 3rd International Seminar on QFD*, Linköping.
- Proc 2 Axelsson, J., Bergman, B., and Eklund, J. (1999). *Proceedings of the International Conference on TQM and Human Factors - Towards a Successful Integration*, vol. I and II, Linköping, Sweden, 1999.
- Proc 3 Bergman, B., Ekdahl, F., Lörstad, M. (1999). *Proceedings from the First International Symposium on Industrial Statistics*, Linköping, Sweden.

CD-ROM

- CD 1 Ahnelöf, J. and Bergman, B. (1994). *What Everybody Should Know About Quality*, COMETT, Hamburg Ausbildung Partnerschaft, Hamburg, and Studentlitteratur, Lund