



Swedish Quality Development Research Academy

University West

University West – Department of Engineering Science

- **Research interest is mainly**
- Automation and measurements
- Machining and metal forming
- Thermal spraying
- Virtual manufacturing
- **Objective**
- Research Team Production Technology West finds solutions today for the manufacturing industry of tomorrow
- **Background**
- The focus is on a surface coating process called thermal spraying, welding, cutting processing and sheet-metal stamping. The team also performs research on computer simulation, control and automation engineering and nondestructive testing. An important overarching aim of the research is to achieve sustainability in production
- **Case studies at hand**
- More than 40 ongoing projects
- **Industrial relevance**
- The research team is a part of the Production Technology Center, PTC, which is run in partnership with University West, Innovatum Technology Park, Volvo Aero and Saab Automobile. The researchers also work with a large number of other companies.
- **Projects in progress**
- Over 40 projects are running since 2006 of which some ends in 2014. The projects have a total turnover of more than 110 mkr.
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- **Partners**
- Volvo Aero, Volvo CE (University West is Volvos strategic academic partner), GE, ESAB, SAAB Automobile and several others
- **Expected results**
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- **Researchers involved**
- Head of research team is professor Per Nylén

Ingrid Tano

Research interest

Multivariate capability studies

Objective

- Identify or develop new graphic methods for multivariate, correlated variables that is easy to handle.

Background

- August 2009- Ph.D. Candidate, Department of Mathematical statistics with special emphasis on industrial statistics, Luleå University of Technology.
- 2005- member of the University board
- 1995-98 Director of studies at the department of Quality and statistics at Luleå university of Technology
- 2003-2007 Head of department of mathematics at University West
- 1994- Instructor and teacher –statistics and quality technology

Case studies at hand

- Investigate and analyze the applicability of different multivariate capability indices at Thermal spraying, Volvo Aero Corporation

Academic Partners

- **Prof. Kerstin Vännman at Luleå University of technology**, Mathematical statistics with special emphasis on industrial statistics
- **Prof. Per Nylén at University West**, industrial engineering

Other Partners

- **Jan Wigren, Volvo Aero Corporation**

Researcher

- **Ingrid Tano**
- Universitetsladjunkt i statistik
- Ingrid.Tano@hv.se



Yvonne Lagrosen

- **Research interest**
Kvalitetsutveckling med kopplingar till hälsa, organisatoriskt lärande, estetik, kreativitet och hjärnfunktion.
- **Objective**
 - Docentansökan 2011
- **Background**
 - 00-06 Ph.D. Candidate, Department of Quality Science, Chalmers University of Technology, part-time
 - 1997-00 Ph.D. Candidate, Department of Statistics, Uppsala University, part-time
 - 1994-97 Instructor and teacher – personal development..
- **Case studies at hand**
 - **Håller på att ”resubmit” två studier som handlar om**
 - “Approach to measuring health-related quality management” till The TQM Journal med deltagande företag Engcon AB
 - “Organizational Learning and Six Sigma Deployment Evaluation in an IT Setting” till The International Journal of Lean Six Sigma med ett internationellt anonymt deltagande företag inom IT-Service branschen.

- **Academic relevance**
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 - ..
- **Industrial relevance**
 - ..
 - **Projects in progress**
 - Ansökning inne till KK-stiftelsen om lärande nätverk inom hälso och fitness branschen
 - ..
 - *Other projects:*
- **Academic Partners**
 - **Stefan Lagrosen, Professor i företagsekonomi**
 - **Prof. Fred Travis, USA, neruofysiologi**
 - Harald Harung, docent, management, ledarskap
- **Researcher**
 - Yvonne Lagrosen
 - Universitetslektor i kvalitetsutveckling
 - Yvonne.Lagrosen@hv.se



Jonas Hansson

- **Research interest**
Integration of management systems
Implementation of quality management
- **Objective**
 - Improving the conditions for organisations to successfully work with quality management
 - Docentansökan
- **Background**
 - 1998-2003, Ph.D. Candidate, Department of Quality and environmental Management, Luleå University of Technology
 - 2003- Assistant professor University West
 - 2006-2008, Division Manager
 - 2008- Vice head of department of engineering science
- **Case studies at hand**
 - None at the moment

- **Academic relevance**
 - The overall aim is to lay the foundations for a theoretical framework for integrated management systems. Research within this area is insufficient, especially from a Swedish context
- **Industrial relevance**
 - The number of organisations dealing with different management systems are increasing both globally and in Sweden, indicating that research that will improve their conditions for working with these would be supportive.
- **Projects in progress**
 - None at the moment
- **Researcher**
 - Jonas Hansson
 - Universitetslektor i kvalitetsteknik
 - Jonas.hansson@hv.se



Stefan Lagrosen

- **Research interest**
Quality management related to services, health and aesthetics
- **Objective**
 - Developing quality management methods based on a deeper understanding of human aspects
- **Background**
1997 Ph.D. Stockholm University
2004 Associate Professor, Växjö University
Almost 20 years experience of research in the quality field
Author of many articles and several books including:
Mänsklig Kvalitetsutveckling, 2009, Studentlitteratur
- **Case studies at hand**
 - Definition of quality dimensions at:
 - Gothenburg Symphony Orchestra
 - 15 Companies in the health and fitness industry



- **Academic relevance**
 - Theoretical development of the quality management field.
- **Industrial relevance**
Methods that are more effective and more conducive for employee well-being and health
- **Projects in progress**
 - Quality and health survey in the school sector
 - Quality dimensions survey in the fitness sector
- **Partners**
 - Yvonne Lagrosen, University West
- **Researcher**
 - Stefan Lagrosen
 - Professor of Marketing and Management
 - stefan.lagrosen@hv.se

