

# Curriculum vitae Dr. Claes Wohlin (summary)

## General

Dr. Claes Wohlin is the Pro Vice Chancellor of Blekinge Institute of Technology from 1 October, 2004. Dr. Claes Wohlin is a full professor of software engineering at Blekinge Institute of Technology (since 2000). From January 1, 2009, he is a professorial visiting fellow at the School of Information Systems, Technology and Management within the Australian School of Business at University of New South Wales in Sydney, Australia.

Dr. Wohlin has previously been the holder of professor chairs in software engineering at Linköping University (appointed 1997) and at Lund University (appointed 1998). The chair at Linköping University was the first chair in Sweden directed towards large-scale software development, and the chair in Lund was the second chair in Sweden. He has been a visiting professor at Chalmers University of Technology from 2005 to 2008. Dr. Wohlin received his Master of Science in Electrical Engineering from Lund University in 1983. In 1986, he received a Licentiate of Engineering and his Ph.D. in the area of software reliability and performance modelling in 1991. Dr. Wohlin was appointed to docent (associate professor) in 1995.

## International position

Dr. Wohlin received the Telenor Nordic Research Award in 2004 based on his achievements in software engineering and improvement of reliability in telecommunication systems. The prize was on 250 000 Norwegian crowns (approximately USD 37 500).

The Journal of Systems and Software ranked in 2009 Dr. Wohlin as number eight among the top scholars in systems and software engineering worldwide based on journal publications in 2002-2006. Furthermore, Blekinge Institute of Technology was ranked as number 11 in the world among the top institutions based on publication for the same time period. Dr. Wohlin was also ranked among the top 10 scholars (second in Europe) in systems and software engineering based on journal publications in 1999-2003, and he was ranked among the top 15 scholars for the second year in row. He was 14 on the list based on publications 1998-2002. In addition, the research group started by Dr. Wohlin in 1993 and led by him until the latter part of 2000 at Lund University made it onto the top ranking of research institutions. Lund University was ranked as number 12 in 2004 on the list (15 in 2003) and Lund University has made it into this position in 10 years. The ranking of Lund University is highly dependent on the contributions of Dr. Wohlin during his period at the university.

In 2005, he was ranked as number five in the world for his contributions to controlled experiments in software engineering in an article published in IEEE Transactions on Software Engineering in September 2005. The ranking was based on contributions between 1993 and 2002.

## Research leader

In 1993, Dr. Wohlin founded the software engineering research group at Lund University. He directed the research group until moving to Blekinge Institute of Technology in year 2000 and he was responsible for the growth of the research and education in software engineering at Lund University 1993-2000. He is currently heading the Software Engineering Research Lab at Blekinge Institute of Technology with 17 people, which has grown from five people when he joined in 2000.

As a research leader, Dr. Wohlin, and his research groups, has successfully attracted research funding from both national and international agencies and industry. Dr. Wohlin was the main applicant for a large research project (BESQ) funded by the Knowledge Foundation. The total size of the project including matching funds (mostly in-kind) from industry was 86

million SEK over more than 6.5 years period, i.e. July 1, 2002 until December 31, 2008. His is currently responsible for a number of external research projects totalling more than 5 million SEK in external funding.

Dr. Wohlin's main research interests are: empirical methods and studies, software metrics, software process assessment and improvement, requirements engineering and software quality.

Based on his contribution to research, Dr. Wohlin was in 2003 awarded the "Researcher of the Year Award" at Blekinge Institute of Technology by Blekinge Research Foundation.

### **University administration**

Dr. Wohlin was in 2004 appointed as the Pro Vice Chancellor of Blekinge Institute of Technology. From 1 October 2004 he is supporting the Vice Chancellor primarily in relation to the strategic development of the university.

Dr. Wohlin served as the first Dean for Undergraduate and Graduate Education at Blekinge Institute of Technology, which included chairing the Board for Undergraduate and Graduate Education. He has also been on several other boards, including the University Board at Blekinge Institute of Technology, one of the research boards at Lund University and employment and promotion boards at both Lund University and Blekinge Institute of Technology.

### **Authorship**

Dr. Wohlin is the principal author of the book "Experimentation in Software Engineering – An Introduction" published by Kluwer Academic Publishers, Boston, MA in the USA in 2000. He is the author of a textbook on software engineering in Swedish published by Studentlitteratur in 2005. He is an editor of two books together with colleagues from Australia: "Managing Software Engineering Knowledge" published by Springer Verlag in 2003, and "Engineering and Managing Software Requirements" published by Springer Verlag in 2005. He is the main author or co-author of more than 60 international journal publications and 10 book chapters. Dr. Wohlin is regularly publishing himself at international conferences and workshops in software engineering. The total number of meeting publications, most with a thorough review process, is more than 100 articles. This includes both invited papers and regular submissions. Thus, his total the number of peer-reviewed publications internationally exceeds 170 articles. Dr. Wohlin was a keynote speaker at the European Software Control and Metrics conference in Munich, Germany in 2000 and at the conference on Evaluation & Assessment in Software Engineering at Keele University, UK in 2001. He has an h-index of 27 in "Publish or Perish" with the book on Experimentation in Software Engineering having more than 1000 citations (search: "C Wohlin" in "all categories", January 4, 2010).

### **Education**

In the postgraduate education, including licentiate and doctoral exams, Dr. Wohlin has been the main advisor for 10 doctoral exams and the co-advisor for 8 doctoral exams. He has been the main advisor for 12 licentiate exams and the co-advisor of 14 licentiate exams. The exams include degrees awarded at Lund University, Linköping University and Blekinge Institute of Technology. Dr. Wohlin has 7 academic grand-children on the doctoral level, i.e. students finishing their degrees with former doctoral students of Dr. Wohlin as the main advisors. As part of the postgraduate education, Dr. Wohlin has given more than 10 different courses within the doctoral program. Currently, he is the examiner for software engineering at Blekinge Institute of Technology with a responsibility for seven doctoral students. Out of these, Dr. Wohlin is the main advisor for three students and advisor for two students.

In the master programs at Lund University, Dr. Wohlin has initiated new courses, improved existing courses and been the responsible lecturer for several courses, both in performance analysis and software engineering. In 1995, the large-scale software development course under the management of Dr. Wohlin was voted the best course in the Computer Science and Engineering program. He has since 1993 advised 55 master theses in the area of software engineering at different universities. Dr. Wohlin was the initiator of a bachelor program in software engineering launched at Lund University (campus in Helsingborg) in 1998. At BTH, he has provided courses and been responsible for the Master theses in software engineering.

### **Industrial experience**

As a complement to his academic career, he has five years of industrial experience from software development, quality management and as a software engineering consultant. Dr. Wohlin's industrial work has included being the software quality manager for the first release of the Base Station Controller of the GSM system at Ericsson. In addition, he has worked as an expert consultant with statistical usage testing, process assessment and evaluation as well as system management issues for a new generation of telecom networks at Ericsson in the beginning of the 1990s. In 2008, he was contracted to be part of a team doing a world-wide assessment of the software development of an international company in the area of process automation.

### **Evaluator**

Dr. Wohlin is regularly invited to perform different evaluations as an expert reviewer. This includes being on doctoral committees, expert reviewer for promotions to different professor levels, evaluator of research project proposals and quality evaluator. Dr. Wohlin has been an evaluator of 24 doctoral theses in Sweden, Norway, Finland, The Netherlands, Singapore and Australia. He has been expert reviewer for 18 professor chairs or promotions to full professor in Sweden, Norway, Finland, UK, The Netherlands and USA. In addition, he has also been an expert reviewer for 15 positions or promotions to assistant/associate professor in Sweden, Austria, UK and Australia. Dr. Wohlin has acted as a reviewer of research project proposals from Sweden (incl. the Vinnova Excellence Centre applications in the ICT area), Norway, The Netherlands, Hong Kong, Qatar, Australia and USA (NSF). The latter has included attending an evaluation meeting in Washington D.C., USA. Dr. Wohlin has also acted as a quality evaluator for the Department of Computer Science, University of Joensuu in Finland.

### **Community service**

Since January 1, 2008 Dr Wohlin is the Editor-in-Chief of Information and Software Technology published by Elsevier with their main office in Amsterdam. Before becoming the Editor-in-Chief for the aforementioned journal, he has been Co-Editor-in-Chief since 2001. He is also on the editorial boards of three additional journals: Empirical Software Engineering: An International Journal; Software Quality Journal and Requirements Engineering Journal. All these three journals are published by Springer Verlag, Germany. Dr. Wohlin has been the guest editor for special issues or special sections for Transactions on Software Engineering, Information and Software Technology, Software Quality Journal, and Empirical Software Engineering: An International Journal. He was the program chair for the International Software Metrics Symposium in London, UK in 2001; publicity chair for the International Conference on Software Engineering Education & Training in Madrid, Spain in 2003, program chair for the International Symposium on Empirical Software Engineering in Rio de Janeiro, Brazil in 2006 and main responsible for the International Advanced School of Empirical Software Engineering, which was co-located together with the International Symposium on Empirical Software Engineering and Measurement in Madrid in 2007. Dr.

Wohlin is yearly on approximately 5-7 program committees for international conferences in software engineering. Dr. Wohlin is a regular reviewer, in addition to those where he serves on the editorial board or as editor-in-chief, for some of the key journals in software engineering, including IEEE Transactions on Software Engineering, ACM Transactions on Software Engineering and Methodology and IEEE Software.

### **Academic collaboration**

Dr. Wohlin has an active international collaboration with Dr. Aybuke Aurum at University of New South Wales in Sydney, Australia, Dr. Lefteris Angelis at Aristotle University of Thessaloniki in Greece, and Prof. Anneliese Andrews at Denver University in USA. The collaborations have resulted in several visits (in both directions), joint conference and journal publications and joint edited books. In addition, Dr. Wohlin has a strong collaboration with colleagues at Lund University in Sweden.