

PERSONAL INFORMATION

Name: Mats Fredrik Walter, born in Malmö 1962
Marital status: Married, three children born in '94, '96 and '99 respectively.
Address (home): Karljacobs v. 8, 371 64 Lyckeby
Phone: 0455-385508 (work)
E-mail: mwl@bth.se (work)

EDUCATION

1993 PhD in Engineering, Production and Materials Engineering, LTH, Lund
1988-1993 Post graduate studies, Production and Materials Engineering, LTH, Lund
1988 Master of Science in Engineering, Product Development, Lund University, Lund
1983-1988 Graduate engineering education, Mechanical Engineering, Lund University, Lund
1982-1983 Military service, Armored Troops, sergeant, P7/Fo11, Revinge
1981-1982 4-year technical school, Paul's School, Malmö
1978-1981 4-year technical school, Polhemsskolan, Lund

PROFESSIONAL EXPERIENCE

2009- Head, Dept. of Mechanical Engineering, BTH, Karlskrona
2009-2010 Research fellow, University of California, San Diego, USA
2008 Guest lecturer, Kunming University of Science and Technology, Kunming, China
2007-2008 Research fellow, University of Sydney, Sydney, Australia
2007-2009 Coordinator of Graduate Studies at BTH
2000-2006 Head, Dept. of Mechanical Engineering, BTH, Karlskrona
1999-2001 Director of studies, Department of Mechanical Engineering, BTH, Karlskrona
1998- Assistant Professor, Department of Mechanical Engineering, BTH, Karlskrona
1997-1998 Acting Assistant Professor, Dept of Production and Materials Eng., LTH, Lund
1997 Visiting scholar, Tong Ji University, Shanghai, China
1996-1998 Director of studies, Dept of Production and Materials Eng., LTH, Lund
1993-1997 Research associate, Dept of Production and Materials Eng., LTH, Lund
1993-1996 Director of studies, specializing in materials and production technology, LTH, Lund
1988-1993 PhD studies, Dept of Production and Materials Eng., LTH, Lund

GRANTS / AWARDS

1997 Postdoctoral fellowship, Wenner-Gren Foundations
1994 Travel grants, Wenner-Gren Foundations
1993 Distinguished scientific literary achievements, Oscar II's scholarship, LU

DISSERTATIONS/PAPERS/REPORTS

- Kao-Walter S, Jiang FC, Han SC, León A, Vecchio K S, Walter M, *An Experimental and Finite Element Approach to a Correlation between KI and CMOD*, Eleventh International ASTM/ESIS Symposium on Fatigue and Fracture Mechanics, May 18 - May 20 2011, Anaheim, CA,
- Kao-Walter S, Walter M, Dasari A, Leon A, *Tearing and Delaminating of a Polymer Laminate*, J. Key Engineering Materials, Volume 465 (2011), 169-174.
- Kao-Walter S, Hu M, Walter M and Leon A, *A Comparison of 2-zone and 3-zone Models in Tearing based on Essential Work of Fracture*, 12th International Conference on Fracture, Ottawa (2009).
- Kao-Walter S, Levin ML, Petronyuk JS and Walter M, *Acoustic imaging internal microstructure of a packaging material*, accepted, XV Int. conf. on Mech. of Comp. Mat., Riga (2008).
- Kao-Walter S, Walter M and Muhammadi AB, *Tensile and Tearing Fracture Behavior of Food Packaging Laminate*, the 3rd China-Europe Symposium on Processing and Properties of Reinforced Polymers, Budapest, Hungary (2007).
- Walter M, *Friction behavior between Jaws and Work Piece (in Swedish)*, Technologically Integrated Manufacturing Engineering, LTH, 1998.
- Walter M, *Experimental Study of Friction between Jaws and Work Piece (in Swedish)*, Department of Production and Materials Engineering, Lund, DPME-9707-01(7/SWE), 1997.
- Walter M, *Un-circular Turning of Rings (in Swedish)*, Technologically Integrated Manufacturing Engineering, LiTH, 1996, ISBN 91-7871-740-X.
- Walter M, *Clamping in Jaw Chucks(in Swedish)*, Department of Production and Materials Engineering, Lund, DPME-9510-02(55/SWE), 1995.
- Walter M and Ståhl JE, *Machining of Ring Shaped Work Pieces*, J. Materials Processing Technology, Volume 48 (1995), 239-246.
- Walter M and Ståhl JE, *The Connection Between Cutting and Clamping Forces in Turning*, Int. J. Mach. Tools Manufact., Volume 34 (1994), 991-1003.
- Walter M, *Models for the Control of Rotating Clamping Devices – Machining (in Swedish)*, Dissertation, Department of Production and Materials Engineering, Lund 1993.
- Walter M, *Adaptive Control of Clamping Equipment in Metal Cutting*, Research within the National Programme for Adaptive Control of Manufacturing Equipment, Project Reports - Machine Tools, Part II, 1992, 206-213, ISSN 1103-1549.
- Walter M and Ståhl JE, *Theories for adaptive control of chucking devices in NC-turning centers*, Information Technology for Advanced Manufacturing Systems, Proc. of IFIP TC5/WG5.3 Int. Conf. on ITAMS, Elsevier Science Publishers B.V. (North-Holland), 1992, 249-256, ISBN 0-444-89308-3.
- Walter M and Ståhl JE, *Deformation Problems Connected with Clamping of Ring Shaped Work pieces in Turning Operations*, Applied Mechanics, Proc. of Int. Conf. on AM, Pergamon Press, 1989, 728-733, ISBN 0-08-037886-2.
- Ståhl JE, Adolfsson C, Cedell T and Walter M, *Application Theories on Giant Magnetostrictive Rods - Design Parameters*, Second International Conference on Giant Magnetostrictive and Amorphous Alloys for Actuators and Sensors, Marbella, Spain, October 12-14 1988.

OPPONENT, DISSERTATIONS

Bayard O, Investigation of the verification techniques for modeling turning processes, Dept of Industrial Production, Royal Institute of Technology (KTH), Stockholm, June 2000

Andersson Alf, Use of FE-analysis in predicting and verifying the design of an automotive component forming process, Dept. of Mechanical Technology, Lund Institute of Technology (LTH), Lund, June 2001

SUPERVISED PH. D. STUDENT

Dovskog P, Fixtures used in Machining - Survey (in Swedish), Dissertation (Lic. Tech.), Department of Production and Materials Engineering, CODEN:LUTMDN/(TMMV-1024)/1-101/(1995).

SUPERVISED M. SC. PROJECTS (1990-2017)

More than 50 projects supervised during the period.

SUPERVISED B. SC. PROJECTS (1995-2017)

More than 70 projects supervised during the period.