

Curriculum Vitae
of
Doctor
Olof Erlandsson

Born: 1972
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Family: Maria and our son Axel



Current duties

Advanced Senior Engineer

September 20th, 2010 Titan X Engine Cooling AB Sölvesborg

- *Research and pre-development of heavy-duty vehicle engine cooling. Heat exchanger performance analysis and modelling.*

Consultant

April 28th, 2003 IC-Engine Research

- *Technical advisor and consultant within internal combustion (IC) engines, thermodynamics and product development. Experimental investigations, analysis and modelling of advanced and innovative IC engine concepts.*
- *Registered firm, VAT number: SE721014331401 (Sweden: Innehar F-skattebevis)*

Experience

Laboratory Manager/Acoustics specialist

Sept. 29th, 2008 – Sept. 10th, 2010 Atlas Copco AB RCE Karlskrona

Research and development engineer

Jan. 19th, 2004 – Sept. 26th, 2008 SCANIA CV AB Södertälje

- *Engine pre-development – Advanced Combustion. Combustion concepts and development of alternative fueled engine systems.*

Ph.D. student

Dec. 15th, 1997 – Mar. 28th, 2003 Lund University Lund

- *Ph.D. student at Lund Institute of Technology, department of Heat and Power Engineering, division of Combustion Engines, incl. some educational responsibility. Research within HCCI engine systems for stationary engines. Engine system modelling, simulation and experiments.*

Mechanical engineer

May 5th - Dec. 10th, 1997 Ingenjörprojekt AB Karlshamn

- *Consultant within mechanical engineering and product development, mostly within the automotive industry.*

- “Simulation of HCCI – Addressing Compression Ratio and Turbo Charging”, Olof Erlandsson, Patrik Einewall, Bengt Johansson, Per Amnéus, Fabian Mauss, SAE 2002-01-2862
- “Thermodynamic Simulation of HCCI Engine Systems”, Olof Erlandsson, Ph.D. thesis, ISBN 91-628-5427-5
- “Combustion in Homogeneous Charge Compression Ignition (HCCI) engines”, Olof Erlandsson, Bengt Johansson, Lund Institute of Technology (educational material, “Gröna Bilens utbildningsatsning” 2004)
- “The Effect of Unconventional Piston Movement on SI Engine Combustion and Emissions”, O. Stenlås, O. Erlandsson, R. Egnell, B. Johansson, E. Alm, M. Alaküla, F. Mauss, SAE 2005-01-1170
- “Water-Based Rankine-Cycle Waste Heat Recovery Systems For Engines: Challenges And Opportunities”, Gunnar Latz, Olof Erlandsson, Thomas Skåre, Arnaud Contet, Sven Andersson, Karin Munch. 3rd International Seminar on ORC Power Systems, 2015 (Best paper award!)
- “On Handling Waste Heat from Waste Heat Recovery Systems in Heavy-Duty Vehicles”, Olof Erlandsson, Thomas Skåre, Arnaud Contet, SAE 2015-01-2792
- “Performance Analysis of a Reciprocating Piston Expander and a Plate Type Exhaust Gas Recirculation Boiler in a Water-Based Rankine Cycle for Heat Recovery from a Heavy Duty Diesel Engine”, Gunnar Latz, Olof Erlandsson, Thomas Skåre, Arnaud Contet, Sven Andersson, Karin Munch, *Energies* 2016, 9, 495; doi:10.3390/en9070495, <http://www.mdpi.com/journal/energies>
- “Design of a Thermoelectric Generator for Waste Heat Recovery Application on a Drivable Heavy Duty Vehicle”, Risseh, A., Nee, H., Erlandsson, O., Brinkfeldt, K. et al., *SAE Int. J. Commer. Veh.* 10(1):2017, doi:10.4271/2017-01-9178
- Inventor: WO2008111904, WO2009045154, WO2010143998, SE0701545, WO2014123474

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