



Lars Thylén received the M. Sc. degree in Electrical Engineering and the Ph. D. degree in Applied Physics in 1972 and 1982, respectively, from the Royal Institute of Technology (KTH) in Stockholm. From 1982 he was with SRA Communications, working in the areas of electronics, digital image processing, diffraction optics and optical processing. From 1976 to 1982 he held a research position at the Institute of Optical Research, Stockholm, where he was engaged in research in integrated and guided wave optics, notably waveguide theory, RF spectrum analysis and optical signal processing. In 1982 he joined Ericsson, heading a group for research in the area of integrated photonics in lithium niobate and

semiconductors and its applications to optical communications and switching. In 1985 to 1986 he was a visiting scientist at the Department of Electrical Engineering and Computer Sciences at the University of California, Berkeley. He has also been a visiting scientist with the Optical Sciences Center at the University of Arizona, Tucson and in the fall of 2001 at the University of California at Santa Barbara, working on applications of quantum optics, notably electromagnetically induced transparency. In 1987, he was appointed adjoint professor at the Department of Microwave Engineering, Royal Institute of Technology, Stockholm. Prof Thylen was active in the inception, planning and running of the EU RACE I OSCAR project as well as the pioneering RACE II MWTN (Multiwavelength transport network) project and ACTS METON project, and has given numerous invited papers on these projects. Since 1992, he is a professor at the department of Microelectronics and Applied Physics, heading the Laboratory of Photonics and Microwave Engineering. From 1992 to 1997 he was a consultant to Ericsson. From 1999 to 2002 he was program director of the Swedish Photonics Research program, supported by the Swedish Foundation for Strategic Research, and comprising KTH and Chalmers University photonics research. Since 2003 he is director of the Research Center in Photonics at KTH, funded by the Swedish Foundation for Strategic Research. Prof Thylen was active in the inception and planning of the Kista Photonics Research Center, implementing a coordinated photonics research effort in the Stockholm area. He is also one of two Chief Scientists of the Joint Research Center of Photonics of the Royal Institute of Technology and Zhejiang University (PR China), formed in 2003.

He was a co-founder of Optillion AB, a startup in the area of 10 Gb/s+ Ethernet transceivers, and a co-founder and board member of PhoXtal Communications AB, a transceiver company. He is a board member of Svedice AB, a III-V semiconductor device foundry. Since 2005, he is a board member of Photonics21, a pan EU technology platform (ETIP) for photonics.

Current research interests include nanophotonics, high density integrated photonics, devices for photonic signal processing and high speed modulation, quantum optics as well as the physics involved in electronic and photonic switching operations.

Prof Thylén has authored or co-authored more than 100 journal papers and conference contributions as well as book chapters and has been granted approximately 20 patents. He has served on program committees for major optical conferences such as European Conference on Optical Communications, ECOC, and Optical Fiber Communications, OFC, and on a number of OSA and IEEE conferences. He has further served as program chair and general chair for the 1995 and 1999 Topical Meetings on Photonics in Switching, respectively. He was general cochair and technical program committee chair for ECOC 2004 in Stockholm.

Prof Thylén is a member of the Optical Society of America and of the IEEE as well as a member of the Royal Swedish Academy of Engineering Sciences.