CURRICULUM VITAE:

JENS A TELLEFSEN, JR, PhD

Name: Jens A. Tellefsen, Jr.

Born: July 24, 1937 in Oslo, Norway

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Education: B.Sc. in Elec. Eng., Princeton University, U.S.A., June, 1962
M.Sc. in Elec. Sci., Stanford University, U.S.A., June, 1963
Ph.D. in Elec. Sci., Stanford University, U.S.A., January, 1970

Employment: (in Sweden)

AGA Corp., Innovation Div., Täby, Sweden
Consultant in opto-electronics and IR-physics
April, 1970 to June, 1976

KTH, Stockholm, Sweden
Assistant professor in the Department of Applied Physics
Responsibilities: Teaching, research and administration
July, 1970 to June, 1988

KTH, Stockholm, Sweden
Associate professor in the Department of Physics
Responsibilities: Mainly teaching
July, 1988 to November, 1991

KTH, Stockholm, Sweden
Associate professor in the Department of Physics II
Responsibilities: Teaching and research
December, 1991, to 2002

Retired as professor of physics, emeritus, July 2002

Teaching experience: In addition to courses in general physics, I teach various topics in applied physics including semiconductor physics, laser physics, IR technology, optronics, photonics, microphysics etc.

Research interest: In the past, I have been involved in numerous projects involving semiconductor physics, laser physics, electron-beam modulation of surface properties, materials physics, polymer physics and optical measurement tech-

niques. More lately, my interest has been in ultra-fast laser optronics, non-linear fiber optics, pulsed and tunable semiconductor lasers, very high speed opto-electronic measurement techniques, quantum well physics and recombination/transport properties of semiconductor materials.

Since July, 1988, I am the leader of the research group of picosecond/femtosecond semiconductor optoelectronics within which most of the above-mentioned activities take place.

Since about 1995, my research group has joined forces with docent Fredrik Laurell, and we operate the research activity called Laser Physics and Nonlinear Optics. We, and our collaborators, are studying various ways to obtain novel kinds of small, compact solid state lasers for the short wavelength (UV), the visible (400-700 nm), and the IR-regions (750 nm-10 μm). These laser sources are usually diodlaser-pumped, they usually employ some nonlinear medium (QPM crystals), and can be operated in the steady-state; they can also be Q-switched, modelocked, and widely tuned. The expected applications are manifold.

Together, we´ve been resposible for very many MSc-, Tec Lic-, and PhD-students. In the fall of 2005, we´ve examined 5 PhD students in our research group.

The homepage of our research group is hhtp://www.laserphysics.kth.se.

National cooperation: Institute of Optical Research; Institute of Microelectronics; Department of Medical Physics, Karolinska Institutet; and Institute of Physics and Measurement, LiTH, in Linkîping, CTH, Acreo among others.

International cooperation: Institute of Semiconductor Physics, Vilnius, Lithuania; Department of Semiconductor Physics, Vilnius University, Lithuania; Department of Physics, PUC, Rio de Janeiro, Brazil; Department of Physics, Imperial College, London, England, Princeton and Stanford universities. Among many others.

Extracurriculum activities: Music (decent piano player), youth work (led a youth/childrens activity for 18 years in Täby), formerly boy scout leader in Norway (15 years), teacher in further education for technical students at KTH since mid-70´ies, heavily engaged in further education for high-school teachers since the mid- 70´ies. Been involved as a speaker for high-school students for many years. I have led courses in popular science at Folkunivesitetet since early 1980´ies. Given numerous public lectures in the area of popular science/popular technolgy all over in Sweden.