

ADVANCED MATERIALS AND DEVICES LABORATORIES SCHOOL OF ENGINEERING, UNIVERSITY OF TOKYO

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LEOS Distinguished Lecturer 講演会のお知らせ

Dr. Jens Buus

Gayton Photonics Gayton, United Kingdom

"Semiconductor Lasers for WDM Systems"

DATE: Friday, October 2, 1998 TIME: 15:30-17:00 PLACE: Lecture Room 36 1st Floor, Engineering Building 3

Abstract

Over the last couple of years the technology for WDM systems has evolved rapidly. This lecture will consider the semiconductor lasers that will meet the demands of WDM systems. We will consider tunable lasers which have now demonstrated tuning ranges in excess of 100nm, considering first the basic tuning principles and then specific designs which have made these remarkable results possible. We will discuss the tuning mechanisms, tuning properties, and tuning requirements for applications in communication systems. Related devices such as laser arrays and multi wavelength lasers will also be included. Throughout the talk numerous examples of laser structures from the recent technical literature will be presented. Practical issues such as characterisation, operation and control of tunable lasers will also be discussed.

BIOGRAPHY

Jens Buus was born in 1952 in Copenhagen, Denmark. He is an electrical engineer (MSc in electrophysics), graduated from the Technical University of Denmark (DTU), August 1976. In addition he holds Lic. techn. (PhD) and Dr. techn. (DSc) degrees from this University. From 1979 to 1983 he was a post doctoral fellow at Electromagnetics Institute, DTU, and from 1983 to 1992 he was employed by GEC-Marconi Materials Technology (formerly Plessey Research Caswell), hold-ing a position as Senior Chief Physicist from January 1988 to December 1992. Since January 1993 he has been a self employed consultant (Gayton Photonics Ltd), in November 1996 he was appointed visiting professor at Aston University. He has worked as project manager in the RACE programme and is currently project manager for a project under ACTS. Dr. Buus has served on a number of conference committees and given invited talks, tutorials and short courses at several conferences, he has authored or co-authored over 100 journal papers and conference contributions as well as 2 books. He is a fellow of the IEEE, and a member of the Optical Society of America,

the Institute of Electrical Engineers and of the Danish Physical Society. His research has included numerous contributions to the understanding of the properties of semiconductor lasers and optical waveguides, as well as contributions to work on gratings, integrated optics and coherent optical communication. Dr. Buus is an IEEE-LEOS Distinguished lecturer for 1998-99.



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