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

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7-1-1 HONGO, BUNKYO-KU, TOKYO, 113-8656, JAPAN

## SEMINAR ANNOUNCEMENT

**Dr. Bernhard Stegmüller**

Project Manager, Siemens Central Research Laboratories  
Munich, Germany

### “MONOLITHIC INTEGRATION OF DFB LASER WITH ELECTROABSORPTION MODULATOR BY IDENTICAL ACTIVE MQW-LAYER STRUCTURE”

**DATE: Friday, October 16, 1998**

**TIME: 10:30-11:30**

**PLACE: Rm. 400**

**4th Floor, Engineering Building 10**

#### ABSTRACT

An overview about the present activities on the research and development of optoelectronic components at Siemens Central Department Photonic will be given. The main topic of the presentation will be the monolithic integration of DFB Laserdiodes and Electroabsorption Modulators. The concept using an identical MQW-structure for the monolithic integration will be discussed and the ongoing improvement of the development of devices based on the ridge-waveguide structure, including design, fabrication and characterisation will be shown. Recent results will be presented.

#### BIOGRAPHY

Bernhard Stegmüller received his first engineer degree in electrical power engineering in 1974 and his diploma degree in electrical engineering with main topic on electrophysics in 1979. From the Technical University of Munich he received his PhD degree in electrical engineering in 1985 with a thesis on the "mode control in semiconductor laser diodes". Since 1984 he was a member of the technical staff at Siemens Central Research Laboratories in Munich. Since 1994 he is project manager and responsible for the development of MQW-layer structures, laser diodes, electroabsorption modulators and its monolithic integration.

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Refreshments will be provided.

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