

RESEARCH CENTER FOR ADVANCED SCIENCE AND TECHNOLOGY, THE UNIVERSITY OF TOKYO

4-6-1 KOMABA, MEGURO-KU, TOKYO, 153-8904, JAPAN

SEMINAR ANNOUNCEMENT

Prof. Thomas L. Koch

Lehigh University Bethlehem, Pennsylvania, USA

"Review of Integrated Tunable Light Sources for Telecommunications"

&

"INTRODUCTION TO LEHIGH'S CENTER FOR OPTICAL TECHNOLOGIES"

DATE: Tuesday, September 28, 2004 TIME: 4:30 pm-5:30 pm PLACE: Seminar Room 307 3rd Floor, RCAST Building 3

Abstract

After a brief introduction to Lehigh University's new Center for Optical Technologies, this talk will review the various approaches to achieving tunable and multi-wavelength functionality, together with their status in addressing performance, fabrication and cost challenges. Tunable light sources offer advantages in wavelength-division-multiplexed optical fiber communications due to simplified inventory and provision-ing, but future applications will include powerful dynamic network reconfiguration and ultimately perhaps burst-mode or even packet-level labeling and routing.

BIOGRAPHY

Tom Koch is a joint Professor in the Electrical and Computer Engineering and Physics departments at Lehigh University, and holds the Daniel E. '39 and Patricia M. Smith Endowed Chair of Director, Center for Optical Technologies.

Prior to this Tom held Vice President positions at SDL, Lucent, and most recently at Agere Systems where he led the Technology Platforms organization with responsibility for research and development of the underlying materials and device technologies supporting Agere's optoelectronic and IC product families.

Tom received his AB in Physics from Princeton and his Ph.D. in Applied Physics from Caltech in 1982. Joining Bell Labs Research in that year, his contributions in optoelectronic technologies enabled key advances in high-capacity optical fiber communications. Tom has chaired numerous major international conferences, authored more than 275 conference and journal publications, book chapters, and books. He has received the Distinguished Lecturer Award and the William Streifer Award for Scientific Achievement from the IEEE LEOS, is a Fellow of Bell Labs, the OSA, and the IEEE.

Host: **Prof. Yoshiaki Nakano**, ext. 55150 nakano@rcast.u-tokyo.ac.jp



Refreshments will be provided.