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

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

SEMINAR ANNOUNCEMENT

Prof. Alwyn Seeds

Head of Opto-electronics and Optical networks Group,
Department of Electronic and Electrical Engineering,
University College London, UK

"Progress in Optical Frequency Synthesis"

DATE: Tuesday, January 18, 2000
TIME: 13:30-14:30
PLACE: Conference Room (会議室)
1st Floor, Engineering Building 3

Abstract

In this talk a variety of techniques for optical frequency synthesis will be considered with application to dense WDM optical transmission as well as to millimetre and sub-millimetre-wave signal generation by heterodyne techniques. Amongst the devices to be considered will be fast tuneable lasers, comb generators and active optical filters.

Biography

Alwyn Seeds received the Ph.D. degree from the University of London in 1980 for work on the optical control of IMPATT oscillators. From 1980 to 1983 he was a Staff Member at Lincoln Laboratory, Massachusetts Institute of Technology, where he worked on GaAs monolithic millimetre-wave integrated circuits for use in phased-array radar. He returned to England in 1983, to take up a lectureship in telecommunications at Queen Mary College, University of London, moving to University College London in 1986, where he is now Professor of Opto-electronics and Head of the Opto-electronics and Optical Networks Group. He has published over 150 papers on microwave and opto-electronic devices and their systems applications and is presenter of the video "Microwave Opto-electronics" in the IEEE Emerging Technologies series. His current research interests include microwave bandwidth tunable lasers, optical control of microwave devices, mode-locked lasers, optical phase-lock loops, optical frequency synthesis, dense WDM networks and non-linear optical transmission.

AMD Lab. Host: **Yoshiaki Nakano**, ext. 26652
nakano@ee.t.u-tokyo.ac.jp

Advanced Materials & Devices