

REGISTRATION IS FREE!

The talk will be followed by light refreshments and an opportunity to meet the speaker.

National ICT Australia invites you to a talk presented as part of the Victoria Research Laboratory Seminar Series. Monday July 11, 2005

Details available online at
<http://www.ee.unimelb.edu.au/research/nicta/seminars/vrl/index.html>

When:
4-5pm, Monday July 11, 2005

RSVP:
Email vrlss@nicta.com.au
By Wednesday July 6, 2005

Where:
111 Barry Street
Theatre 1, ICT Building
University of Melbourne,
Carlton Campus



Public Parking is available at an hourly rate at the University Square car park. Enter via Berkeley Street. Local street parking is also available.

Peter Magill Director, Optical Systems Research, AT&T Labs-Research

The Demands of Photonic Networking

ABSTRACT: Many US carriers today are building backbone networks with re-configurable optical add/drop multiplexers (ROADM) and photonic cross connects (PXC) implementing wavelength routing in the photonic layer. Thus the management of the network must change since optical signals have traveled different lightpaths and will have different levels of impairments (OSNR, CD, PMD) which must be measured. The photonic routing itself may cause transients requiring mitigation strategies against effects like transient stimulated Raman scattering (SRS). Finally electronics alone would have difficulty tracking photonic layer routing. So, an inexpensive optical path ID would be very valuable. I will be discussing our research into these challenges.

BIOGRAPHY: Peter Magill received his BS in Physics from the University of Dayton, Ohio in 1979 and his PhD in Physics from the Massachusetts Institute of Technology in 1987. He joined AT&T Bell Labs a month later, working at the Crawford Hill Lab on the characterization of advanced lasers, optical access networks and data-over-cable access protocols. He then went with Lucent Technologies as it was spun out of AT&T in 1996, heading a new access research department. He managed the R&D of ATM-PON systems and cable modem headend equipment. In 2000 he returned to AT&T and is now Director, Optical Systems Research.

