

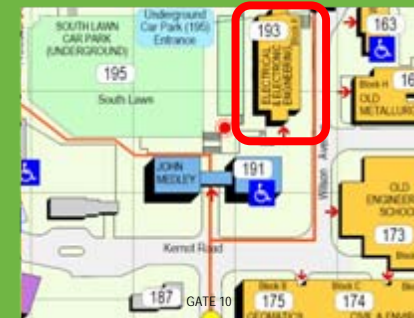
Details available online at http://nicta.com.au/nicta_events/big_picture

National ICT Australia invites you to the Victoria Research Laboratory Big Picture Seminar Series Wednesday October 3, 2007

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

REGISTRATION IS ESSENTIAL FOR THIS FREE EVENT
RSVP to vr1ss@nicta.com.au by Friday September 28, 2007

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



When: 4-5pm, Wednesday October 3, 2007 **Where:** Brown Theatre, Electrical & Electronic Engineering (Building 193), University of Melbourne, Parkville

Ivan P Kaminow, Adjunct Professor, University of California, Berkeley Photonic Integrated Circuits: A Personal Perspective

ABSTRACT:

The concept of integrating many photonic devices on a chip was first proposed in 1969, based on the early success of integrating transistor electronic circuits on a silicon chip. After 38 years, medium-scale photonic integrated circuits are just now emerging as a commercial component for application in lightwave communication systems. Meanwhile, electronic ICs are ubiquitous and contain more than 40 million devices on a thumbnail size chip. Considerable effort is now devoted to combining photonic and electronic devices on one carrier and eventually on one chip. I will give a personal perspective on the emergence photonic ICs. The story provides an excellent example of the importance of massive investments in processing technology with a focus on yield, performance and volume.

BIOGRAPHY:

Ivan P Kaminow received his PhD in Applied Physics from Harvard in 1960. He spent 42 years in lightwave research at Bell Labs as a researcher and manager. He worked on key optical components for photonic ICs as well as on lightwave systems. He has authored 200+ papers, 5 books and 47 patents. He received the IEEE Quantum Electronics Award, OSA Charles Townes Award, and IEEE/LEOS/OSA John Tyndall Award. He is a member of the National Academy of Engineering. Since 2004, he has been Adjunct Professor in EECS at the University of California, Berkeley.

