

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

National ICT Australia invites you to the Victoria Research Laboratory Big Picture Seminar Series Thursday June 28 2007

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

REGISTER YOUR INTEREST NOW

RSVP: vr1ss@nicta.com.au by Tuesday 26 June 2007

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



When: 4-5pm, Thursday June 28 2007

Where: Brown Theatre, Electrical & Electronic Engineering (Building 193), University of Melbourne, Parkville

Paul Henry Access Technology & Applications Research Division, AT&T Labs-Research More Bits per Bandwidth: The Holy Grail of Wireless Communications

ABSTRACT

Because the supply of usable radio spectrum is decidedly limited, higher spectrum efficiency -- more bits per bandwidth -- has been a central theme of radio engineering for the past century. Despite (or perhaps because of) their brilliance, some of the most noteworthy contributions toward that goal have had side effects that impeded rather than advanced the wireless art.

We're still chasing higher spectrum efficiency. Is our research still producing side effects that will come back to haunt us? This time, maybe, things will be different.

BIOGRAPHY

Paul S. Henry is a Member of the Access Technology & Applications Research Division at AT&T Labs, where his interests focus on bringing high-speed Internet connectivity to homes and businesses. After receiving his Ph.D. in physics from Princeton University, Dr. Henry joined AT&T (Bell) Laboratories, where he has been engaged in research on communications circuits and systems as well as radio astronomy instrumentation. He has served as a Technical Editor of IEEE Communications Magazine, a Guest Editor for the Journal of Lightwave Technology and has published papers or patented inventions in several fields, including millimetre-wave radio techniques, cosmology, optical fibre and powerline communications, wireless systems and data security. Henry's current research emphasis is on broadband wireless access technology. He became a Fellow of the IEEE in 1987 and was the keynote speaker at Infocom 2002 (New York) and ICCCP'05 (Muscat, Oman).

