5G Wireless Networks: Small-Cells, Massive MIMO and New Spectrum Opportunities
Joint Electrical Institutions Sydney - Engineers Australia, IEEE, IET

DATE & TIME

Thursday, April 9, 2015
5:30 pm for 6:00 pm start

VENUE

Engineers Australia Harricks Auditorium
Ground Floor, 8 Thomas Street,
Chatswood NSW 2067

COST

EA, IET, IEEE Members – Free
Students – Free
Non-members - $30

CPD

Eligible for 1.5 Continuing Professional Development hours.

RSVP

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HOSTED BY

Joint Electrical Institutions Sydney

ENGINEERS AUSTRALIA
Sydney Division

IEEE

IET
The Knowledge Network

Presentation by Professor Stephen Hanly, Macquarie University, Sydney, Australia

Abstract:

Demand for wireless data services continues its exponential growth, and pressure is mounting on the limited radio spectrum. The great challenge is to design the next generation of wireless networks to accommodate this explosive growth. This talk will touch on a number of important research questions and results, with a particular focus on small-cell offloading, massive MIMO, and mm-wave communications, to increase the spatial re-use of the radio spectrum. The talk will also discuss the opportunities for more efficient allocation of spectrum, including novel ways of sharing spectrum amongst multiple parties and applications.

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SPEAKER BIOGRAPHY

Professor Stephen Hanly

Professor Hanly received his Ph.D. degree from Cambridge University, UK, and was a Post-doctoral member of technical staff at AT&T Bell Laboratories from 1993-1995. He is presently a Professor in the Department of Engineering at Macquarie University, Sydney, Australia, where he holds the CSIRO-Macquarie University Chair in Wireless Communications. He has been invited as guest Editor of two recent IEEE JSAC special issues: “Cooperative Communications in MIMO Cellular Networks” in 2010, and “5G Wireless Networks” in 2014, and he has previously served as an editor of IEEE Transactions on Wireless Communications. He has won several prizes for his research including the IEEE Infocom best paper award in 1998, and the Joint IEEE Communications Society and IEEE Information Theory Society best paper award in 2001. His research interests are in wireless communications, networks, and information theory.

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