



# 学术报告

ACADEMIC LECTURE

**题目: 5G Wireless Networks: Small-Cells, Massive MIMO, New Spectrum Opportunities**

**时间: 5月23日上午10:00-11:00**

**地点: 信电楼215**

**报告人: Professor Stephen Hanly**

**Macquarie University, Sydney, Australia**

**特邀专家**

**INTRO**

## 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 both small-cell offloading, and massive MIMO, to increase the spatial re-use of the radio spectrum. We will also provide information on research opportunities and PhD scholarships currently available in my group at Macquarie University. I have scholarships for international students that include both tuition and living stipend.

## Biographies



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. He is a highly cited researcher, and has won several prizes for his research including the IEEE Infocom best paper award, and the Joint IEEE Communications Society and IEEE Information Theory Society best paper award. His research interests are in wireless communications, networks, and information theory.