

Associate Professor Robert Stening

**School of Physics,
University of New South
Wales**

Qualifications

MSc, PhD, Dip Tert Ed, ThC, FAIP.

Profile

Robert Stening is a Senior Visiting Fellow in the School of Physics at the University of New South Wales, Sydney.

He did his undergraduate study in Science at the University of Sydney and obtained his PhD in ionospheric physics at the University of Queensland in 1969.

After some postdoctoral work at the Dominion Observatory in Ottawa, Canada, he lectured at the University of the West Indies in Jamaica, then at the Broken Hill Division of the University of New South Wales, finally moving to that University's Kensington campus.

His research centres on understanding the electric currents which flow in the ionosphere at altitudes around 110 km. The magnetic fields generated by these currents are detected by magnetometers spread all around the world.



Science/Faith interests

For some years Robert has been teaching an online course on Science and Religion which is offered as a General Education unit to UNSW students. Recently this has attracted around 250 students each session.

For 15 years Robert served on the Board of Directors and as National Secretary of ISCAST.

Some recent research papers

Stening, R, Reztsova, T and Minh, LH (2005), 'Day-to-day changes in the latitudes of the foci of the Sq current system and their relation to equatorial electrojet strength', *J Geophys Res* 110, A10308, doi:10.1029/2005JA011219.

Stening, R, Reztsova, T, and Minh, LH (2007), 'Variation of Sq focus latitudes in the Australian/Pacific region during a quiet sun year', *J. Atmos. Solar Terr. Phys.* **69**,734-740, 2007.

Stening, RJ, and Reztsova, T (2007), 'The daily variations of the vertical (Z) element of the geomagnetic field around the coast of mainland Australia', *Earth Planets Space* **59**, 579-584, 2007.

Stening, RJ (2008), The shape of the Sq current system, *Annales Geophysicae*, **26**, 1767-1775, 2008.

Stening, RJ, Reztsova, T, Ivers, D, Turner, J, and Winch, DE (2008), 'Spherical cap harmonic analysis of magnetic variations data from mainland Australia', *Earth, Planets, Space*, **60**, 1177-1186, 2008.

Papers on Science and Christianity

Stening, RJ 'God's statistical universe', *Christian Perspectives on Science and Technology*, (ISCAST Online Journal), Vol. 2 (2006).

Stening, Robert 'Einstein and his religion', *CASE* 09 (2006).

Website

http://www.phys.unsw.edu.au/STAFF/VISITING_FELLOWS&PROFESSORS/stening.html