



ENGINEERS
AUSTRALIA
South Australia
Division



Engineers Australia's College of Biomedical Engineers (SA Branch),
The Society for Medical and Biological Engineering, &
The Australasian College of Physical Sciences and Engineers in Medicine

Jointly present

“Low dose radiation – a cancer risk?”

By Mr Peter Collins, MSc

There is considerable controversy regarding the potential risk of low level, ionizing radiation (for example, from diagnostic Radiology procedures). There is good epidemiology data (primarily for studies of Hiroshima and Nagasaki atomic bomb survivors) showing effects at high doses (>200 mSv) and various risk models (Linear No-Threshold, Hormesis etc.) have been proposed for extrapolating from this high dose data to low dose levels.

This presentation discusses how radiation interacts with matter, the various defence systems that the body has to cope with radiation “stress” and assesses the validity of the various risk models (mainly from an experimental perspective).

Mr Collins is Principal Medical Scientist in the Department of Nuclear Medicine, PET and Bone Densitometry at the Royal Adelaide Hospital (RAH), and Radiation Safety Officer (RAH). He is Immediate Past President of the Australian and New Zealand Society of Nuclear Medicine.

Event details:

Date: **Tuesday 19th June 2007**

Venue: Telemedicine Room
Level 3 East Wing (“L” on Map)
Royal Adelaide Hospital
North Terrace
Adelaide 5000

Time: **5:30pm:** light food and drinks
6:00pm: talk

Cost: Members FREE, guests also free

RSVP: Please RSVP to Wendy Tuckwell
on 08 8222 2460 or
wtuckwel@mail.rah.sa.gov.au
by the 14th of June 2007

