

Institute of **Physics**

LONDON AND SOUTH EASTERN BRANCH REMS SECTION

Summer At Home Thursday 24 July 2003

This summer's "At Home" will be held as usual at IOP HQ and is on the 24 July. There is no limit on numbers and the cost will be £18/ head.

The programme for the day is:

10.30 - 11.00	Arrival and coffee
11.00 - 11.05	Welcome and future programme
11.05 - 12.00	Donald Sheppard; Technique of conducting and the conductor's role.
12.00 - 12.45	Kate Crenell/Tony Balchin Bells and Bell Ringing.
12.45 - 13.45	Lunch
13.45 - 14.15	Tour of IOP new extensions (otherwise another glass of wine or two).
14.15 - 15.15	Wendy Sadler; Music to your ears.
15.15 - 16.00	David Simmons; Memories of the Antarctic.
16.00 - 16.15	Overruns and AOB
16.15	Tea and disperse.

Donald Sheppard is an associate of the Royal College of Music and sang with the Bournemouth Symphony Chorus for 40 years under many distinguished conductors. He has acted as a Music Advisor for Southern Arts and is currently a tutor on musical topics for the University of the Third Age Bournemouth and plays recorders with the Dorset Branch of the Society of Recorder Players.

Bell-Ringing. The talk will include the basic physics of bells i.e the shape of bells, modes of vibration, harmonics and tuning. How bells are mounted in a tower and rang. The methods used for ringing e.g. rounds call changes for 4, 6, 8, 10, 12 and 16 bells. The uses made of bells for services, celebrations and warnings. The organisational and social aspects enjoyed by bell ringers. The financial impact imposed by the new wedding regulations. Tapes and the ringing of hand-bells will be used to illustrate the talk.

Wendy Sadler is a physicist and science communicator who runs her own business, 'science made simple'. She is passionate about exciting all kinds of people about science, particularly physics which, she says, "seems to scare people the most!" By using everyday things with which people are familiar, combined with theatrical presentation skills, she wants to show people that science needn't be high-brow and complicated. Physics and music are not often associated as close companions, yet an understanding of the science behind harmony and sound can enhance a sense of wonder about the way music works. In addition, technology is having increasing influences on the way we listen to music and record it. This presentation takes you on a journey of sound from synths to CDs to reveal the scientific mysteries of music and technology.

David Simmons graduated for Birmingham University in 1955 and then worked with the Falkland Islands Dependence Survey in the Antarctic and UK. After teaching Physics in Chelmsford and Ipswich he joined the British Antarctic Survey. The talk will be a slide lecture illustrating two years life and work on an Antarctic base 1957 - 1958. It will cover the voyage down, scenery, wildlife, scientific work, and leisure activities. Time permitting there will be brief comments about the changing nature of 'Expeditions' to the Antarctic over the last 100 years.