

**International Conference on Secondary Ion Mass Spectrometry
SIMS XV**

Manchester, UK, 12-16 September 2005

**Symposium on Archaeometry, Cosmochemistry and
Geology
Tuesday 13th September 2005**

As part of SIMS XV there will be a one-day symposium on the applications of Secondary Ion Mass Spectrometry (SIMS) to archaeometry/cultural heritage, cosmochemistry and geology. These three application areas have a common goal - the analysis of heterogeneous and spatially inhomogeneous materials. Moreover, they bring together the diverse range of SIMS instrumentation, and span both dynamic and static SIMS, using to the full its distinctive attribute - the ability to obtain an exceptionally sensitive chemical analysis from the controlled consumption of pico-litres of material. Whether the application is analysis of the molecular composition of an ancient textile surface, measurement of oxygen isotopic ratios in pre-solar grains, or examination of lead isotope ratios in micron-scale zircons in rocks, the technique yields unique information on formation, age, history and source of the sample.

The symposium will provide a venue for the presentation of the latest research in these areas, and explore the often surprising complementarity and commonality between some of the problems encountered. It will cover the full range of SIMS applications - top monolayer analysis, ultra low energy depth profiling, and microvolume analysis. It will open with an invited lecture from Professor W. Compston, to commemorate the work of one of the most influential instrumental designers in the micro-volume analysis and geological areas - Jim Long.

Invited speakers will include

W. Compston (Australian National University),

The geological ion microprobe: the first 25 years of dating zircons by SIMS

A. Adriaens (Ghent University),

Applications of SIMS to archaeometry and cultural heritage

D. S. McPhail (Imperial College),

Quadrupole SIMS applications to antique silver, glass, and micrometeorites

C. Carr (Manchester University),

ToF-SIMS Analysis of Historical Textiles

P. Hoppe (Max-Planck-Institute for Chemistry),

NanoSIMS - A new tool in cosmochemistry

Contributed papers

Abstracts of papers suitable for oral or poster presentation at the symposium should be prepared and sent according to the details and deadlines on the SIMS XV website (see below).

Registration and other details

The symposium is included with full registration for SIMS XV. One-day registration for the symposium alone is available at £95 (full rate), £65 (student rate). Go to <http://www.meeting.co.uk/simsxv/>