

The SIMS Process (images courtesy of Dr Zbigniew Postawa, Jagiellonian University, Poland)

THE MiniSIMS ADVANTAGE

PRODUCING CHEMICAL IMAGES IN SECONDS AND KEEPING ANALYSIS TIMES TO A MINIMUM, THE MiniSIMS TAKES YOU OUTSIDE THE LIMITS OF CONVENTIONAL LABORATORY INSTRUMENTATION.

SECONDARY ION MASS SPECTROMETRY

Secondary ion mass spectrometry (SIMS) is one of the foremost techniques for surface analysis. Established for over 40 years, it reveals the chemical composition of both the extreme surface and near surface atomic layers. The information extends far beyond a simple elemental analysis to identify the molecular structure of organic components.

A key capability of SIMS is the in-situ analysis of a localised area of the surface (static SIMS). Scanning a focused probe beam (imaging SIMS) builds up a chemical map of the surface in seconds rather than minutes. Prolonged analysis progressively etches away the surface to profile the changing composition below the surface (dynamic SIMS). All this can be achieved with little or no sample preparation and high sensitivity, reducing analysis times to a minimum.

WHY MiniSIMS?

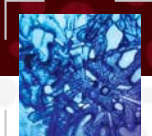
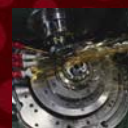
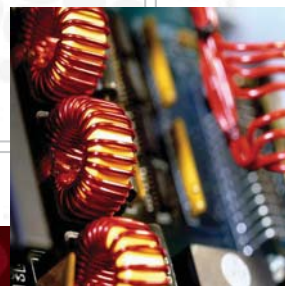
The MiniSIMS harnesses the awesome power of the SIMS technique in a compact benchtop instrument. Requiring only a standard mains electricity supply for operation, it can be located wherever it is most needed. Full computer control makes operation straightforward and automates data acquisition. Remote control via the internet means that a mobile SIMS capability is now a realistic option.

The MiniSIMS makes an in-house surface analysis instrument the cost-effective solution in a wide range of situations. Analysis is faster and more convenient than outsourcing to contract SIMS analysis laboratories. Low capital and maintenance costs, together with high sample throughput, mean that overall cost per sample can be 90% less than with conventional SIMS instrumentation.



Mini SIMS

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