PHYSICAL ELECTRONICS
A DIVISION OF ULVAC-PHI

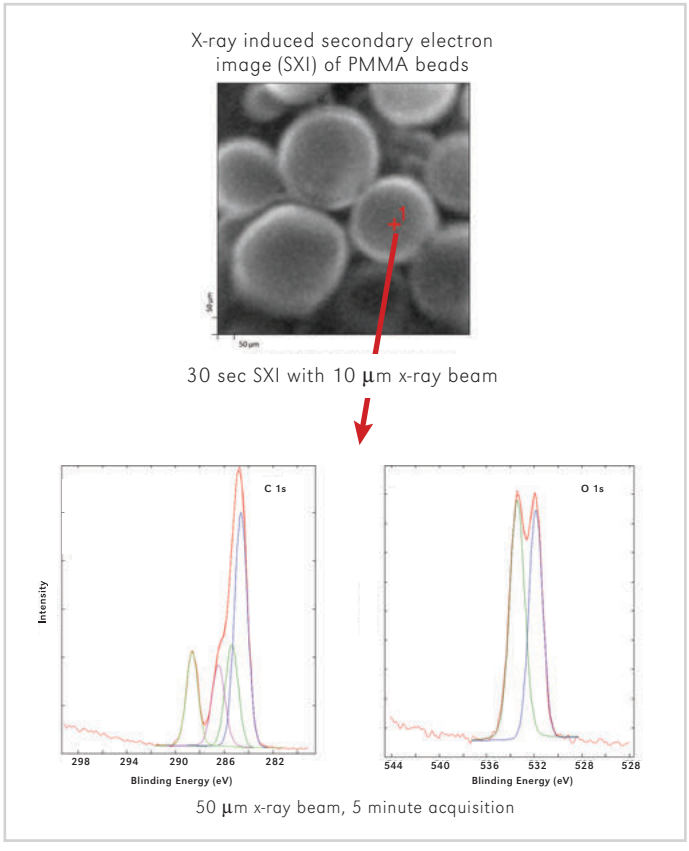
PHI *VersaProbe* III

Scanning XPS Microprobe

Announcing the latest in PHI's line of scanning XPS microprobe instruments – the *VersaProbe* III. This multi-technique instrument builds on our industry-leading patented scanning microprobe technology and dual beam charge neutralization and takes it to a higher level.

FEATURES OF THE *VERSAPROBE* III:

- *New* Analyzer lens for 2-3 times higher sensitivity for all analysis conditions
- *New* Multi-channel detector for faster elemental and chemical imaging
- *New* Angle dependent technology for +/- 5 degree solid angle collection for ADXPS measurements
- *Improved* Hot/cold stage providing temperatures of -140° C to +600° C
- *New* Dedicated hot sample platen operating up to +800° C
- *New* 4-contact transferable sample mount for in-situ controlled potential experiments
- *New* UPS design for increased sensitivity and improved energy resolution
- *Improved* Auger performance providing higher energy resolution and better signal to noise

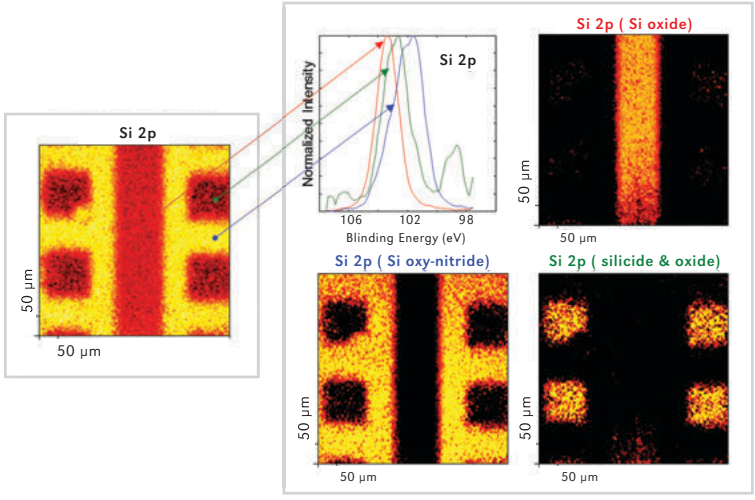


Tried and True Performance

Our scanning microprobe technology remains the heart and soul of the *VersaProbe* III, where an electronically rastered electron beam bombards an Al anode creating, in turn, a rastered micro-focused x-ray beam on the sample surface. X-ray induced secondary electron images (SXIs) can be acquired in a matter of seconds to assure surface homogeneity, or on non-homogenenous surfaces, allow for easy setup of point or area acquisitions directly onto features of interest observed in the SXIs. Since the SXIs and photoelectron data are collected through the same spherical capacitor energy analyzer you can know for certain that the location of analysis chosen on the SXI is truly the area being analyzed.

Chemical State Imaging

Improved analyzer and detector technologies allow for even faster chemical state imaging on the *VersaProbe* III. With 128 data channels and improved signal intensities, identification and mapping of localized chemistries from small area features is unsurpassed.



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