CAMECA
SCIENCE & METROLOGY SOLUTIONS

AMETEK

APSuite 6

The Atom Prober's Toolkit
for Data Analysis Workstations

A user-friendly, collaborative platform to seamlessly manage your APT research projects, from start to finish.

Includes IVAS 6, Data Navigator & Asset Manager

APT

AP Suite 6:
A Database-Centered Workflow

All steps of your Atom Probe Tomography analysis project are taken care of within AP Suite 6.

With **AP Suite 6**, you can now manage your entire Atom Probe Tomography (APT) research projects within one single environment. What's more, a wealth of new features have been added to the previously existing tools, greatly enhancing communication, analytical performance and productivity.

AP Suite 6 incorporates a database-centered workflow through the Data Navigator and Asset Manager modules.

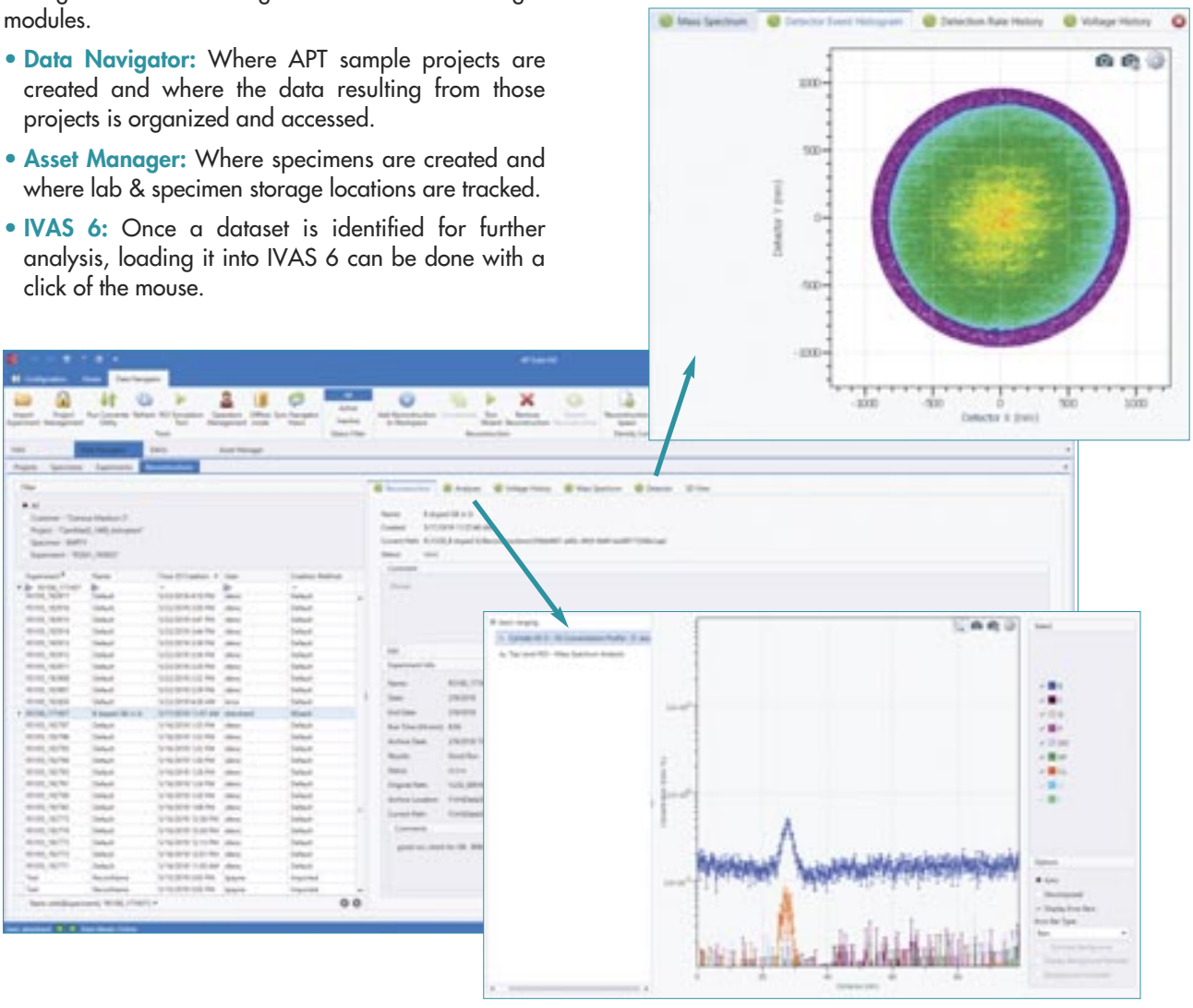
- **Data Navigator:** Where APT sample projects are created and where the data resulting from those projects is organized and accessed.
- **Asset Manager:** Where specimens are created and where lab & specimen storage locations are tracked.
- **IVAS 6:** Once a dataset is identified for further analysis, loading it into IVAS 6 can be done with a click of the mouse.

Ideal for multi-user facilities

AP Suite 6 is designed as a collaborative, multi-user platform to serve the APT needs of any member in your organization: user-specific logins can be assigned, enabling security based on individual access rights.

Easy navigation & data preview

AP Suite 6 communicates with your database of scientific projects, samples, previously acquired data and analyses. You can preview results within the data navigator with no need to load it in **IVAS**.



IVAS 6: New Features to Enhance Analytical Capabilities

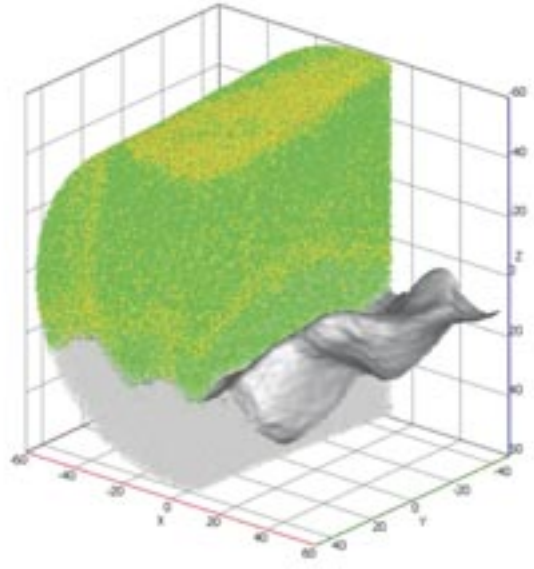
Adopted by APT users worldwide, CAMECA's Integrated Visualization & Analysis Software, IVAS™, transforms your Atom Probe data into meaningful quantitative information. Retaining the user-friendly tabbed panel conception from previous versions, IVAS 6 is now seamlessly integrated in the AP Suite. IVAS 6 maintains all the capabilities you're used to: • Intuitive data reconstruction and display • Depth profiles and proxigram analysis • Solute analyses • Peak decomposition • Extensive export capabilities, plus it introduces exciting new features!

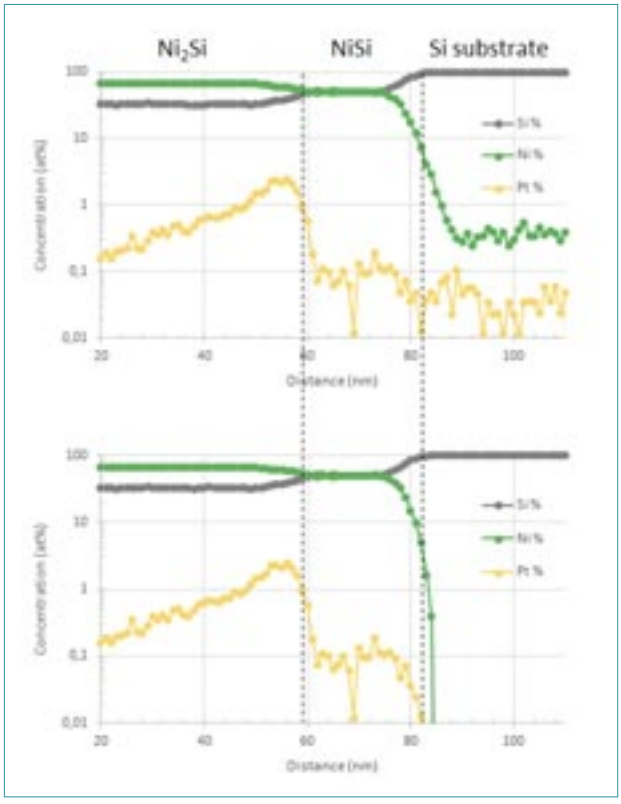
Enhanced compositional accuracy with new spatial ranging function

Previous APT analysis software programs were limited to a single set of peak identifications for a given volume under analysis, leading to sub-optimal results due to peak overlaps and a non-zero spectral background when a volume contained chemically-distinct sub-volumes.

Sub-volumes can now be defined via calculated or user-defined geometric regions of interest (ROI), and new peak identifications - spatial ranging - created for any ROI, reducing the influence of peak overlaps and spectral background and greatly enhancing the accuracy of composition measurements.

In the example here, a 90% Si interface was defined which allowed Ni and Pt ranges to be eliminated within the pure Si sub-volume (shown in grey). The effect of spatial ranging on the concentration profile accuracy is clear: elimination of Ni and Pt backgrounds as shown in the charts at right.





Other new features & benefits include:

- Overlay of correlative 2D data (TEM or other microscopy) within the 3D display to enable correlative analysis across complimentary techniques
- Automated peak identification based on Bayesian statistical analysis
- 1D profiles in X, Y & Z dimensions for cylinder and sphere ROIs
- Multi-peak time-of-flight corrections
- Enhanced ion rendering
- One-click ion tile display
- Extensive chart formatting options
- Scripting console & third party support

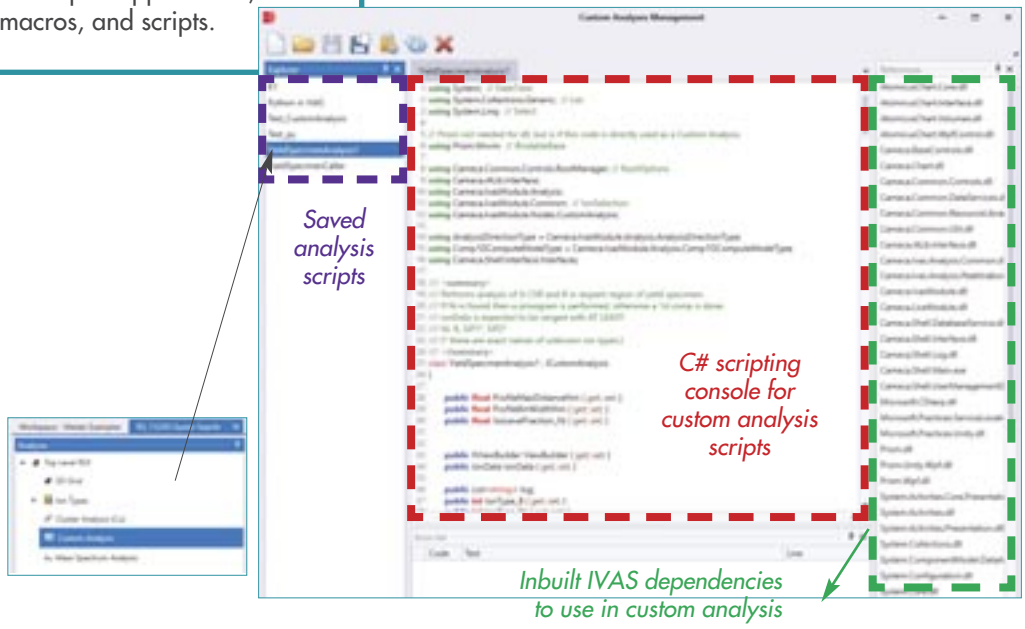
AP Suite 6: The Atom Prober's Toolkit for Data Analysis Workstations

Third-party software support: Customize your AP Suite to meet the specific needs of your organization.

IVAS 6 has been developed to enable the integration of third-party, community-developed applications, macros, and scripts.

AP Suite 6 introduces the .APT file format with increased flexibility: the .APT file contains a number of sections each with a distinct type of data relevant for a particular analysis. Additional sections (e.g. those available in .ATO or .EPOS files) can be added as needed.

The .APT format is an extensible format which accommodates new types of data classifications, derived data, or meta data. It provides a lightweight format to enable custom analyses.



AP Suite 6 also contains a C# terminal which enables scripts to plug into the analysis tree directly to interface with the IonData available to an ROI. This scripting terminal provides direct access to some of the features within IVAS for analyzing data and displaying results.

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