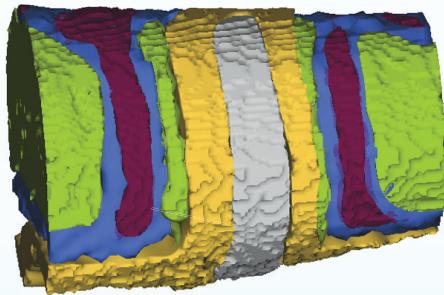


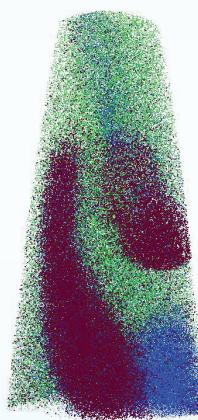
Go Big – Think Small

Atom Probe Tomography (APT) is the only material analysis technique offering extensive capabilities for simultaneous 3D imaging and chemical composition measurements at the atomic scale. Leading academic institutions use APT for groundbreaking research, and world-class manufacturers rely on APT for process improvement and materials innovation.

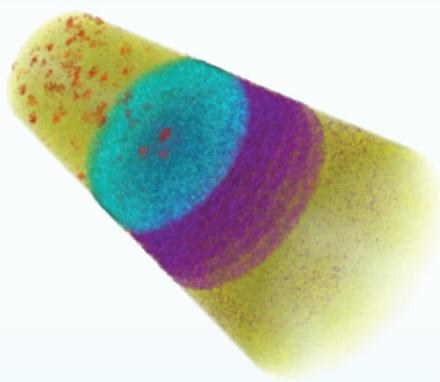
Atomic-level samples generated by APT reveal 3D chemical information not visible via other microscopy techniques.



3D volume showing the pure Si fin surrounded by the metal gate structure in a 14 nm microprocessor device



Boron segregation to a grain boundary in a Ni superalloy with carbide and boride precipitates



GaN LED device structure with Mg precipitation (red) and InGaN quantum well structure (purple)

CAMECA, the recognized world leader in atom probe development and manufacturing, offers two leading-edge APT instruments: the EIKOSTTM and the LEAP[®] 5000.



EIKOSTTM is an easier-to-use atom probe microscope, with a lower cost of ownership enabling faster development of alloys for industrial use and a deep understanding of materials for research applications.



The LEAP[™] 5000 is CAMECA's cutting-edge atom probe microscope, offering superior detection efficiency and yield across a wide variety of metals, semiconductors and insulators.

bismuth telluride	lutetium granules	metamaterials	electrochemistry	solid
strontium doped lanthanum	III-IV nitride materials	crystal growth	nanoribbons	
organo-metallics	regenerative medicine	cerium polishing powder	yttrium	
thin film	dysprosium pellets	atomic layer deposition	scandium-aluminum	
nanodispersions	aerospace	ultra-light alloys	iridium crucibles	vanadium
	green technology	battery	lithium gallium arsenide	high purity silicon
refractories	surface functionalized	nanoparticles		tantalum
ite	semiconductors	palladium shot		termet
cathode	K Ca Sc Ti V Cr Mn Fe Co Ni Cu Zn	Ga Ge As Se Br Kr		anode
nucleus	Rb Sr Y Zr Nb Mo Tc Ru Rh Pd Ag Cd	In Sn Sb Te I Xe		iron
conduction	Cs Ba La Hf Ta W Re Os Ir Pt Au Hg	Tl Pb Bi Po At Rn		liquids
gallium	Fr Ra Ac Rf Db Sg Bh Hs Mt Ds Rg Cn	Uut Fl Uup Lv Uus Uuo		ionic

photovoltaics europium phosphors quantum dots neodymium foil ionic
dielectrics rare earth metals nickel foam LED lighting
spintronics nanofabrics rare earth metals nickel foam LED lighting
super alloys stable isotopes carbon nanotubes gold nanoparticles optoelectronics
rod platinum ink laser crystals titanium robotic parts tungsten carbide
CIGS anti-ballistic ceramics fuel cell materials hafnium tubing Nd:YAG
optoelectronics es biosynthetics germanium windows superconductors ultra high purity materials
macromolecules sputtering targets gadolinium wire advanced polymers buckey balls
metalloids rhodium sponge shape memory alloys alternative energy

Now Invent.TM

mischmetal



THE MATERIALS SCIENCE COMPANY [®]

electrochemistry nanomedicine tellurium

catalog: americanelements.com

©2001-2014 American Elements is a U.S. Registered Trademark.

zirconium single crystal silicon diamond micropowder neodymium foil
gadolinium wire advanced polymers single crystal silicon macromolecules