# Microscopy Innovation Awards

Congratulations to the winners of the 2014 *Microscopy Today* Innovation Awards:



- Abberior Instruments
- AppFive
- Applied Nanostructures
- Asylum Research, an Oxford Instruments company
- CoolLED
- FFI
- Leica Microsystems
- Max Planck Institute for Biophysical Chemistry
- NanoMEGAS
- Stanford University
- University of Missouri
- Yale University

Entry deadline: March 15, 2015

Application forms at www.microscopy-today.com





EDS, EBSD, WDS, Micro-XRF and Micro-CT – **Bruker is the world's only manufacturer to offer five analysis methods for SEM.** Plus, our new ESPRIT 2.0 software not only controls our QUANTAX EDS and QUANTAX EBSD but also, via its functional interface, our innovative new XSense WD spectrometer and XTrace micro-spot X-ray source. And because we know what you expect of us, we are already thinking about our next innovation. **Someone has to be first.** 



www.bruker-5on1.com

Innovation with Integrity

Nano-Analysis



# Patented, ultra-high-efficiency downstream plasma cleaner

### "Absolutely the most advanced electron microscope cleaner on the market..."

Removes hydrocarbons in-situ from SEMs, FIBs, TEMs and other analytical tools — and pre-cleans samples ex-situ

10X Faster Hydrocarbon Removal

Exclusive 5 mTorr plasma and >20W power generates greater O<sup>o</sup> density with longer mfp—giving GV10X significantly higher ashing efficiency than competitive cleaners.

Much Gentler Cleaning

Gently oxidizes hydrocarbons into molecules that are pumped free of the chamber. No specimen damage from energetic species, sputtering or heat.

Faster Start, Total Control

Universal software works on any EM — no system integration needed. Start using GV10X in two minutes. Easy-to-use GUI gives operator full control of all functions.

Uninterrupted Specimen Analysis

Want to clean a specimen during analysis? It's easy. Takes just 5 minutes for GV10X to cycle On/Clean/Off — not an hour!





Get more information:

admin@ibssgroup.com

1 (415) 566-5774

www.ibssgroup.com

#### THE NEW VITUA STREAMLINED TEM SAMPLE PREPARATION FOR THE LIFE SCIENCES



Introducing the Denton Vacuum Vitua® - the first automated TEM sample preparation system specifically designed to support high resolution rotary shadow casting of large organic molecules.

#### **DENTON VACUUM**

BARRIERS BECOME BREAKTHROUGHS

Visit us at:

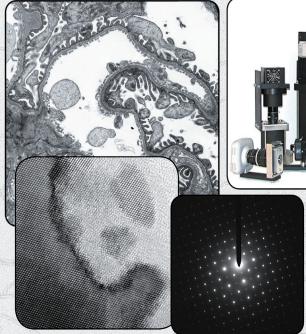
www.dentonvacuum.com/mt



1 TO 50 MEGAPIXELS live and slow scan

MAGNIFICATION FACTOR OF 1 on bottom mounted cameras

DIFFRACTION BEAM STOP on side mounted cameras







Affordable TEM camera systems for research, education, healthcare, and industry since 2001

Scientific Instruments and Applications 2773 Heath Lane • Duluth, GA 30096 (770) 232 7785 • www.sia-cam.com

## INDEX TO ADVERTISERS Bruker MicroCT

A3 Bruker Nano GmbH A17 Carl Zeiss Microscopy, LLC A16 Denton Vacuum A18 Diatome Cover 2 E.A. Fischione A15 EDAX, Inc. A5 Electron Microscopy Sciences, EMS A14 FEI Company A6 Cover 3 Gatan **IBSS** Group A18 **JEOL** Cover 4 Microscopes International Α9 MSA Ads A10, p.277 Olympus A11 SI&A Scientific Applications A19



Be confident you can perform electron backscatter diffraction analysis in high resolution. Introducing the PECS™ II instrument to automate preparation of damage free surfaces, cross sections and deposit coatings to enhance your understanding of grain size, texture and orientation.





\* Courtesy of Dr. Artur Indzhykulian, Harvard Medical School

REALab