

Oxford Instruments Asylum Research Announces the New Electrochemistry Cell for the Cypher ES Atomic Force Microscope

Nov. 18, 2016 (Santa Barbara, CA) Electrochemistry capabilities are now available on the Cypher ES Atomic Force Microscope (AFM), the highest resolution, fast scanning AFM with environmental control. Oxford Instruments Asylum Research announces the availability of the new Electrochemistry Cell for studying electrochemical reactions *in situ*, including processes such as deposition, oxidation, corrosion and mass transfer of metals and other materials at the nanoscale.

“The Electrochemistry Cell leverages the advanced performance of the Cypher ES AFM and adds impressive new functionality for electrochemistry investigations,” said Dr. Iréne Revenko, Asylum Research Product Manager. “The Cypher ES with its Electrochemistry Cell is a robust, versatile, and easy-to-use tool that is ideal for AFM researchers looking to advance the performance of materials in the fields of energy storage, advanced materials, and even bioscience.”

The Electrochemistry Cell features a robust design that is easy to assemble, disassemble, and clean. It enables dynamic experiments for diverse AFM experimental conditions:

- Allows simultaneous electrochemistry and heating/cooling for investigating EC thermodynamics
- Supports a wide range of working electrode materials and sizes for a multitude of experimental conditions
- Compatible with most conventional and cutting-edge electrolytes for novel research needs
- Can be used with the choice of your favorite potentiostat
- Glovebox compatible for ultimate environmental control with no performance compromises

Additional information and specifications on the Cypher ES Electrochemistry Cell can be found at www.oxford-instruments.com/CypherECCell.

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Figure caption: AFM images showing electrochemical stripping of copper from a gold electrolyte in an acidic solution of 0.1M copper sulfate, 2 μm scans, imaged with the Cypher ES with Electrochemistry Cell.

About Oxford Instruments Asylum Research

Oxford Instruments Asylum Research is the technology leader in atomic force microscopy for both materials and bioscience research. Asylum Research AFMs are widely used by both academic and industrial researchers for characterizing samples from diverse fields spanning material science, polymers, thin films, energy research, and biophysics. In addition to routine imaging of sample topography and roughness, Asylum Research AFMs also offer unmatched resolution and quantitative measurement capability for nanoelectrical, nanomechanical and electromechanical characterization. Recent advances have made these measurements far simpler and more automated for increased consistency and productivity. Its Cypher™ and MFP-3D™ AFM product lines span a wide range of performance and budgets. Asylum Research also offers its exclusive SurfRider™ AFM probes among a comprehensive selection of AFM probes, accessories, and consumables. Sales, applications and service offices are located in the United States, Germany, United Kingdom, Japan, France, India, China and Taiwan, with distributor offices in other global regions.

About Oxford Instruments plc

Oxford Instruments designs, supplies and supports high-technology tools and systems with a focus on research and industrial applications. Innovation has been the driving force behind Oxford Instruments' growth and success for over 50 years, and its strategy is to effect the successful commercialisation of these ideas by bringing them to market in a timely and customer-focused fashion.

The first technology business to be spun out from Oxford University, Oxford Instruments objective is to be the leading provider of new generation tools and systems for the research and industrial sectors with a focus on nanotechnology. Its key market sectors include nano-fabrication and nano-materials. The company's strategy is to expand the business into the life sciences arena, where nanotechnology and biotechnology intersect.

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This involves the combination of core technologies in areas such as low temperature, high magnetic field and ultra high vacuum environments; Nuclear Magnetic Resonance; x-ray, electron, laser and optical based metrology; atomic force microscopy; optical imaging; advanced growth, deposition and etching.

Oxford Instruments aims to pursue responsible development and deeper understanding of our world through science and technology. Its products, expertise, and ideas address global issues such as energy, environment, security and health.

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