

## **“AFM Characterization of Emerging Photovoltaics” Webinar Hosted by Oxford Instruments Asylum Research, September 13, 2018**

August 14, 2018 (Santa Barbara, CA) Oxford Instruments Asylum Research, in conjunction with the Materials Research Society (MRS), presents a free webinar, “AFM Characterization of Emerging Photovoltaics,” on September 13, 2018 at 11:30 am EDT. The webinar presents an overview of AFM applications for emerging photovoltaic (PV) systems including hybrid organic-inorganic perovskites and organic semiconductors. Speakers Dr. Rajiv Giridharagopal, Ginger Lab, University of Washington, and Dr. Ted Limpoco, Asylum Research, discuss results using standard and advanced modes such as photoconductive AFM, piezoresponse force microscopy (PFM), and time-resolved electrostatic force microscopy. Additional results are presented to further illustrate the power and versatility of atomic force microscopes (AFMs) for photovoltaic R&D. Additional details and registration are at <http://afm.oxinst.com/pv-webinar>.

“This webinar is ideal for all scientists and engineers that are investigating PV materials at the nanoscale,” said Jason Li, Applications Manager, Asylum Research. “Researchers will gain insight into how much easier AFM has become to probe local electrical and functional response in light or dark conditions with environmental control, and to map surface structure with unprecedented resolution. The innovations on Asylum Research’s Cypher and MFP-3D AFMs have greatly improved characterization of PV materials.”

*Figure caption: Kelvin probe force microscopy surface potential of polycrystalline MAPbI<sub>3</sub> film with surface potential overlaid on topography.*

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**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.

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.

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