

JPK Instruments contact:

Claudia Boettcher: +49 30533112070

Media contact:

Jezz Leckenby: +44 (0)1799 521881

## **JPK Instruments launch the NanoWizard® 3 NanoScience AFM**

*Berlin, 23<sup>rd</sup> March 2011:- JPK Instruments, a world-leading manufacturer of nanoanalytic instrumentation for research in life sciences and soft matter, continues to expand its family of high performance research systems with the announcement of the availability of the NanoWizard® 3 NanoScience AFM system.*

Building relationships with the SPM community and collaborating with users worldwide has enabled JPK to develop powerful and flexible systems. Designing with upgradeability in mind guarantees a safe investment for users and an international team of experienced scientists and developers takes care of their service and support.

The resulting NanoWizard® 3 NanoScience system design provides the highest AFM performance in liquids and air, integrated with optical microscopy. It provides optimum imaging in air and liquid for single molecules, polymers and nanomaterials. The tip-scanning head equipped with a flexure scanner gives highest flexibility for a large variety of different samples. In particular, large sample size scanning is possible. The expanded flexibility and modularity of design coupled with the widest range of operation modes and accessories from electrochemistry to the tip-assisted optics module makes this the ideal platform for multiple users and applications.

The core of the new system family is HyperDrive™, a SuperResolution AFM imaging technique. With extremely low tip-sample interactions, samples are never damaged. It is available with the NanoWizard® 3 AFM head and the new Vortis™ high bandwidth, low noise control electronics. The system is extremely stable to drift and has the ability to detect the smallest cantilever deflections enabling some of the most stunning images ever produced in a commercial system. This digital controller has been built with flexible operation for the user in mind. The NanoWizard® 3 is the only AFM system on the market which is designed for optimal use in liquid and comes with a vapour barrier, encapsulated piezos and a variety of dedicated liquid cells for applications ranging from single molecule experiments to corrosion in an electrochemical environment.

As JPK's CTO, Torsten Jähnke, says - "Everywhere where AFM and optics, AFM in liquid and high quality AFM are needed, JPK is the right partner. We do not do every AFM application but what we do, we do with passion and perfection."

NanoWizard® 3 is a truly state-of-the-art designed system providing the broadest possible range of experimental options to the user: from single molecule force measurements to nanoindentation experiments applying JPK's unique ExperimentPlanner™ and RampDesigner™ control routines.

JPK develop, engineer and manufacture instrumentation in Germany to the world-recognized standards of German precision engineering, quality and functionality. For further details on the NanoWizard® and other products in the JPK family of nanoscale characterization systems, please visit the JPK web site, <http://www.jpk.com/nanowizard-3-nanoscience-afm.606.html>.

**Attachment:**



JPK's NanoWizard® 3 NanoScience AFM

### **About JPK Instruments AG**

JPK Instruments AG is a world leading manufacturer of nanoanalytic instruments that enable unparalleled access at the nanotechnology level. JPK was recognized as Germany's fastest growing nanotechnology company in 2007 and 2008 (Deloitte). The product portfolio is based around atomic force microscopes and optical tweezers for a wide range of applications, from soft matter physics to nano-optics, from surface chemistry to cellular and molecular biology. Leading-edge instruments from JPK are used by the most renowned research institutes across the world. Headquartered in Berlin and with operations in Dresden (Germany), Cambridge (UK), Singapore, Tokyo (Japan) and Paris (France), JPK maintains a global network of distributors and support centers and provides on the spot applications and service support to an ever-growing community of researchers.

JPK Instruments AG  
Bouchéstrasse 12  
Haus 2, Aufgang C  
Berlin 12435  
Germany  
T +49 30533112070  
F +49 30 5331 22555  
[www.jpk.com](http://www.jpk.com)  
[cl.boettcher@jpk.com](mailto:cl.boettcher@jpk.com)

NetDyaLog Limited  
39 de Bohun Court  
Saffron Walden  
Essex CB10 2BA  
United Kingdom  
T +44 (0)1799 521881  
M +44 (0)7843 012997  
[www.netdyalog.com](http://www.netdyalog.com)  
[jezz@netdyalog.com](mailto:jezz@netdyalog.com)