

Press Release

February 22, 2018

## **Raith launches new FIB-SEM for FIB-centric nanofabrication**

**Dortmund February, 2018 – Raith, the world leading manufacturer of nanofabrication instrumentation, introduces VELION, the only FIB-SEM in the world which truly defines FIB as the priority technique.**

With the new VELION FIB-SEM instrument Raith has created a new state of the art solution for FIB-SEM nanofabrication. To meet the most demanding requirements both in R&D nano prototyping as well as sample preparation and microscopy, the ion column is installed vertically in the system. Supported by a Raith proprietary fast field emission SEM column and its unique Laser Interferometer Stage VELION is equipped for various research and development tasks.

“VELION is the perfect choice both for Focused Ion Beam experts and nanofabrication professionals: It provides versatile FIB nanofabrication across large areas with all direct and 3D patterning techniques. Complementing Electron Beam Lithography it helps to achieve scientific results faster by easy in-situ optimization and less process steps. At the same time sample preparation and inspection applications like X-section analysis and TEM lamella are enabled by live high resolution SEM imaging. All this combined in one system – this is our answer to the FIB-SEM community facing increasing nanofabrication challenges,” says Dr. Sven Bauerdick, Senior Product Manager.

“VELION answers the most pressing requirements from nanofabrication experts,” says Dirk Brüggemann, Vice President Sales and Marketing of Raith Group. “FIB and even multiple non-contaminating ion species beyond Gallium and new patterning approaches are now available with lithography class stability and precision. VELION will serve a larger variety of microscopy applications. The FIB-SEM community will also benefit from Raith’s experienced and worldwide operating support structure.”

The system and its fascinating application range will be presented at the DPG in Berlin (March 13 – 16) for the first time. Talks, “Lunch and Learn” sessions as well as video demonstrations can all be experienced at booth #17. Soon after, the product will be introduced at the EIPBN in Puerto Rico (May 29 – June 1).

All information around the novel VELION will be available to the public at:

[www.raith.com/velion](http://www.raith.com/velion)

Inquiries or questions of any kind can be sent to: [sales@raith.com](mailto:sales@raith.com).

#### About Raith:

Raith is a leading provider and manufacturer of systems for nanofabrication, electron beam lithography, focused ion beam nanofabrication, nanoengineering and reverse engineering. Founded in 1980 and headquartered in Dortmund, Germany, the company offers solutions for researchers and engineers in both academic and industry settings. With nearly 250 employees supporting customers in Europe, the Americas, Asia, and the Pacific region, Raith provides a professional support infrastructure that delivers added value to its customers. Raith counts high-level universities, academic institutions as well as companies in the high technology business among its clientele. For more information please visit [www.raith.com](http://www.raith.com).