Leading With Innovation

Rigaku presents latest XRM and CT analytical instrumentation at 2019 Microscopy & Microanalysis meeting

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Rigaku is showcasing its newest X-ray analytical technology at M&M 2019

August 5, 2019 – Portland, OR. Rigaku Corporation, a global leader in X-ray analytical technology, is pleased to announce its attendance at the Microscopy & Microanalysis 2019 Meeting (M&M 2019), taking place August 4 - 8, 2019 in Portland, Oregon at the Oregon Convention Center.

The Microscopy & Microanalysis Meeting, organized by the Microscopy Society of America, is the world's largest scientific gathering of microscopy and microanalysis professionals, academics, technicians, students and exhibitors. The conference covers topics such as the latest techniques, methodologies and findings, spanning nano-to-macroscopic scales, and advances in fields such as nanotechnology, biological and clinical sciences, materials science, 3D manufacturing, and metallurgy.

The Rigaku nano3DX X-ray microscope

X-ray microscopy (XRM) and computed tomography (CT) equipment from Rigaku enable nondestructive analysis of large samples at high resolution. Rigaku is spotlighting its current XRM and CT solutions at ***booth 437***.

The Rigaku CT Lab GX 3D X-ray micro CT imager

X-ray microscopy is suited to a range of materials, from low-density substances such as biological samples to high-density materials such as ceramics and steels. The Rigaku nano3DX X-ray microscope images an entire sample from multiple angles, using a high-powered rotating anode X-ray source and a high-resolution CCD imager, enabling reconstruction of a 3D image at 0.27 µm resolution. The computer model allows the user to view sections at any point on any plane, providing valuable insights into the structure of the sample.

Another distinct feature is its ultra-wide field of view. The nano3DX is able to measure volumes up to 25 times larger in a single scan compared to other systems at similar resolutions in comparable time frames.

Applications for the nano3DX range from materials science to electronics and semiconductors to mining and minerals exploration, as well as life sciences and pharmaceuticals.

Also available are the Rigaku CT Lab GX industrial 3D X-ray micro CT imager and the Rigaku CT Lab HX benchtop X-ray micro CT system. Computed tomography reveals, at high-speed, the high-resolution, three-dimensional structure of an object by means of computer-processed combinations of numerous X-ray images taken from different angles. The CT Lab GX series offers the latest 3D CT technology enabling measurement of industrial products in a short period of time.

The Rigaku CT Lab HX benchtop X-ray micro CT system

For 3D and 4D imaging of micro-scale morphologies, Rigaku offers the Rigaku CT Lab HX high-performance benchtop X-ray micro CT system, a compact yet powerful micro CT system that can provide three-dimensional X-ray images of a wide variety of samples. The CT Lab HX system features the largest field of view (FOV) and most powerful X-ray source in its class (130 kV, 39W).

More information about x-ray imaging technologies from Rigaku is available at https://www.rigaku.com/products/imaging.

About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on general-purpose analytical instrumentation and the life sciences. With hundreds of major innovations to their credit, Rigaku companies are world leaders in X-ray spectrometry, diffraction, and optics, as well as small molecule and protein crystallography and semiconductor metrology. Today, Rigaku employs over 1,400 people in the manufacturing and support of its analytical equipment, which is used in more than 70 countries around the world supporting research, development, and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial communities.

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