The N8 HORIZON for dedicated SAXS, WAXS, and GISAXS

Brian Jones¹, Geert Vanhoyland², Kurt Erlacher², Jon Giencke¹, Bob He¹, Heiko Ress¹
¹ Bruker AXS – 5465 East Cheryl Pkwy – Madison, WI - US
² Bruker AXS – Oestliche Rheinbrueckenstrasse 49 - Karlsruhe - Germany

Small Angle X-Ray Scattering (SAXS) is a technique used to characterize nanoscale properties of samples such as fibers, colloidal solutions, nanostructured surfaces, polymers, nanocomposites, and biological materials. Dedicated instrumentation is required to achieve the sensitivity, length-scale resolution, and sample conditions required to characterize these materials.

Bruker introduces the N8 HORIZON, a dedicated system for SAXS, WAXS, and GISAXS. The N8 HORIZON features an innovative and compact vertical instrument design and as a consequence provides advantages over conventional horizontal SAXS systems, such as ease-of-use, convenient sample handling, small footprint, and low cost-of-ownership.

In this contribution, we give an overview of the N8 HORIZON and present application examples from various fields of materials research.