Today’s analytical scientists face more challenges in elemental analysis regarding analytical performance, ease of use and cost of ownership than ever before. Often a single instrument has to provide full analytical flexibility and performance for all applications in industry, research and development, fulfilling future demands for higher product quality and decreasing limit values for regulated elements. Bruker AXS will present the newly introduced WDXRF spectrometer, the S8 TIGER, with its innovative, optimized X-ray optics and user interface matching these needs.

While the S8 TIGER’s new high-intensity X-ray tube excites the sample even more efficiently, the combination of the tube with the shortest beam path leads to the highest possible element sensitivities. Novel analyser crystals of the “XS” series significantly improve detection limits, precision and resolution for a number of elements and specific applications. The versatile beam path and wide selection of different crystals and collimators provide advanced analytical flexibility even for the most demanding applications.

The high analytical performance of the S8 TIGER WDXRF system is made even more powerful with leading-edge analytical software and its integrated analytical intelligence. A uniquely designed XRF expert system, actively guiding users in creating methods, checking performance criteria and running evaluations, enables even inexperienced users to achieve accurate, reliable analytical results.

Examples of the benefits and analytical performance of the new S8 TIGER WDXRF system, including its novel X-ray optics and XRF expert system, will be shown for difficult, real-world applications.