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Rigaku Features X-ray Analytical Instrumentation for Petroleum Industry at Gulf Coast Conference

Rigaku is exhibiting at the 2019 Gulf Coast Conference, presenting X-ray analytical instrumentation for elemental analysis of crude, fuels, lubricants and alloys.

October 15, 2019 – Galveston, Texas. Rigaku Corporation is presenting its diverse range of X-ray analytical instrumentation at the 2019 Gulf Coast Conference (GCC) taking place at the Moody Gardens Convention Center in Galveston, TX, Tuesday, October 15 to Wednesday, October 16, 2019.

Rigaku manufactures a complete range of X-ray diffraction (XRD) and X-ray fluorescence (XRF) instruments and components for research, testing, industrial process control. X-analytical technology from Rigaku enables quantification of everything from heavy elements in crude oil to sulfur in gasoline and diesel, as well as elemental analysis of lube oils and alloys found in petro-chemical plants.

Rigaku is exhibiting its lines of benchtop X-ray diffraction and wavelength dispersive X-ray fluorescence (WDXRF) spectrometers at *Booth #106*.

Featured systems include the sixth generation Rigaku MiniFlex benchtop X-ray diffractometer and the Rigaku Supermini200 benchtop WDXRF spectrometer. These powerful, transportable instruments deliver speed and sensitivity through innovative technology and design.

The sixth generation MiniFlex X-ray diffraction instrument is a general purpose X-ray diffractometer that can perform qualitative and quantitative analysis of polycrystalline materials. It delivers speed and sensitivity through innovative technology advances, including the HyPix-400 MF 2D hybrid pixel array detector (HPAD) together with an available 600 W X-ray source and new 8-position automatic sample changer.

Sixth generation Rigaku MiniFlex benchtop XRD spectrometer

The Rigaku Supermini200 analyzer is the world's only high-power (200 W) benchtop sequential WDXRF spectrometer for elemental analysis of oxygen (O) through uranium (U) of almost any material. It uniquely delivers low cost-of-ownership with high resolution and lower limits of detection (LLD).

Benchtop and on-line energy dispersive X-ray fluorescence (EDXRF) spectrometers for multi-element analysis of solids, liquids and powders and X-ray transmission (XRT) instrumentation from Applied Rigaku Technologies, Inc. (ART) are being presented at *Booth* #102.

The compact Rigaku NEX QC series of benchtop analyzers is positioned to meet the changing demands of the petroleum industry. With multi-element capabilities, elements such as nickel (Ni), vanadium (V), and chlorine (Cl) can be measured in petroleum products, in addition to sulfur (S) in crude oil. On display at the event is the enhanced Rigaku NEX QC+ EDXRF analyzer featuring next generation silicon detector (SDD) technology, offering significant improvement in elemental peak resolution and counting statistics.

Also at the conference is the Rigaku NEX DE analyzer, developed for heavy industrial applications and engineered to maximize flexibility and ease of use. The system operates on the latest Rigaku QuantEZ analytical software, which runs on the Microsoft Windows operating system and was specifically designed for the Rigaku family of benchtop EDXRF analyzers

Rigaku NEX DE energy dispersive X-ray fluorescence spectrometer

For real time process control needs, ART offers the Rigaku NEX XT process sulfur in oil analyzer and the Rigaku NEX OL process multi-element analyzer.

Rigaku KT-100S handheld LIBS analyzer for metal alloy analysis

Rigaku Analytical Devices manufactures Raman and laser induced breakdown (LIBS) analyzers, and will present the Rigaku KT-100S handheld LIBS spectrometer. As petrochemical, petroleum and power plants have put more stringent positive material identification (PMI) and PMI testing programs in place to avoid component or equipment failure,
PMI tests are performed to confirm that components meet alloy composition and grade specifications where metal components are mission critical.

The KT-100S handheld metal analyzer was designed to provide a method for ensuring proper alloy composition, enabling identification of common alloy grades in seconds. The KT-100S handheld metal analyzer is being shown by Rigaku Analytical Devices at *Booth #104*

The Gulf Coast Conference promotes education and the advancement of knowledge of chemical analysis technology associated with the petrochemical, refining, and environmental sectors. More information about Rigaku solutions for the petroleum and petrochemical industries is available at https://www.rigaku.com/petro

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 90 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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