

## Press Release

### Rigaku Publishes New Method for EDXRF Analysis of Ash Content in Coal

**Austin, TX— May 6, 2014.** Applied Rigaku Technologies, Inc. is pleased to publish a new application report that details the analysis of anticipated ash content in unburned coal using the [Rigaku NEX QC EDXRF](#) analyzer. Rigaku Application Note #1378 demonstrates the capability of energy dispersive X-ray fluorescence (EDXRF) spectrometry for predicting percentage of ash content in coal. The report includes complete information about sample preparation, method calibration and repeatability.

Ash content of coal is the non-combustible residue comprised of metal oxides and heavier elements that remain after the organic, gaseous and volatile components are removed through combustion. The ash content affects the coal quality and influences its price. Reliably predicting the ash content in coal before burning is therefore important in many areas throughout the industry, for example at coal fired power plants. EDXRF offers a fast, straightforward, and low-cost method of predicting the percentage of ash content in coal before it is burned.



Rigaku NEX QC energy dispersive  
X-ray fluorescence analyzer

Analysis is uncomplicated, with the prospective ash material expressed as a percentage of the original weight. This analysis is accomplished by use of a simple and versatile benchtop EDXRF analyzer.

The performance described demonstrates the capacity of the NEX QC analyzer to yield excellent results for the analysis, and illustrates its ability to offer lab analysts or field operators an easy and fast tool for predicting ash content percentage in coal. The versatility of the NEX QC Series of analyzers also allows for the measurement of elemental and oxide concentrations if the assay values are available for the set of calibration standards.

A copy of this report may be requested at:  
[http://www.rigakuedxrf.com/edxrf/app-notes.html?id=1378\\_AppNote](http://www.rigakuedxrf.com/edxrf/app-notes.html?id=1378_AppNote)

#### 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 life sciences and general purpose analytical instrumentation. With hundreds of major innovations to its credit, Rigaku and its subsidiary companies are world leaders in the fields of small molecule and protein crystallography, X-ray spectrometry and diffraction, X-ray optics, as well as semiconductor metrology. Rigaku employs over 1,100 people globally and its products are in use in more than 70 countries – supporting research, development, and production control and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial community.

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