

Press Release

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The November edition of *The Bridge*, the Materials Science newsletter from Rigaku, is now online

Issue 53 of The Bridge newsletter from Rigaku concentrates on materials science and is available from the company's website

November 22, 2017 – The Woodlands, Texas. The latest edition of [The Bridge](#), the materials science newsletter from [Rigaku Corporation](#), is now available on the company's global website. *The Bridge* presents current news and analysis methods in order to keep the scientific community informed about the latest developments in X-ray based materials science.

A host of news reports, articles and scientific papers related to X-ray diffraction ([XRD](#)), wavelength dispersive X-ray fluorescence ([WDXRF](#)), energy dispersive X-ray fluorescence ([EDXRF](#)), total reflection X-ray fluorescence ([TXRF](#)) and [Raman](#) spectrometry are presented, along with new application reports for the various X-ray analytical techniques.

The November 2017 edition of *The Bridge* contains [Rigaku Journal](#) articles describing [Rigaku SmartLab Studio II](#), a new integrated X-ray diffraction software package for making both measurements and analyses, available with the [SmartLab™](#) automated multipurpose X-ray diffractometer, and an overview of Nanoscale X-ray structural characterization featuring the [Rigaku NANOPIX](#) small angle and wide angle X-ray scattering instrument. *The Small Angle X-ray Scattering* ([SAXS](#)) technique described is a powerful tool for nanoscale structural analysis covering a broad range of applications from research and development to quality control.

Application reports are presented for a variety of X-ray analysis techniques, including an application note describing the analysis of glass and raw materials by EDXRF to enable screening and mixing of materials to achieve desired glass properties for finished products.

A report on high pressure crystallography is also included. The application of pressure is capable of inducing major structural and other changes in crystalline materials. The study of such samples under pressure is increasing in popularity due to the capabilities of modern X-ray diffractometers and the increased availability of synchrotron facilities.

This month's book review takes a rather comical turn with, *Soonish: Ten Emerging Technologies That'll Improve and/or Ruin Everything* by Kelly and Zach Weinersmith. The authors combine science fact and science humor in an amusingly illustrated investigation into future technologies

Finally, "Recent Scientific Papers of Interest" is a monthly feature presenting recently published material analysis papers. The new issue features 19 recently published papers on wide variety of research relating to materials science.

Readers can subscribe to the newsletter or view the current issue online at <https://www.rigaku.com/subscribe>

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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