



Leading With Innovation

## Press Release

# Issue 64 of *The Bridge*, the Materials Science newsletter from Rigaku, is online

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*The October 2018 edition of The Bridge newsletter from Rigaku focuses on materials science and is now available from the company's website*

**October 30, 2018 – The Woodlands, Texas.** The October 2018 edition of [The Bridge](#), the materials science newsletter from [Rigaku Corporation](#), is now available online on the company's global website. *The Bridge* presents current news and analysis techniques related to X-ray based materials science, including articles, scientific papers and news reports.

This month's issue presents two featured articles. The first article discusses the newest addition to the [Rigaku SmartLab](#) series of high-resolution X-ray diffraction analyzers. The second is a paper discussing the life and research of Professor Frances H. Arnold, who was awarded the 2018 Nobel Prize in Chemistry.

Application reports for X-ray diffraction ([XRD](#)), energy dispersive X-ray fluorescence ([EDXRF](#)) and wavelength dispersive X-ray fluorescence ([WDXRF](#)) are also featured. This month's XRD technical note discusses texture analysis of a Copper wiring film using the Orientation Distribution Function (ODF). XRF application notes discuss the measurement of sulfur in petroleum by ASTM D2622-16 and the analysis of carbon black by EDXRF spectroscopy.

The book review for the month features *The Equations of Life: How Physics Shapes Evolution* by Charles S. Cockell. The book explores how the laws of physics affect how life can evolve.

As always, a roundup of the latest global news stories related to materials analysis is presented, including a report about the development by Northwestern University scientists of soft materials that autonomously self-assemble into molecular superstructures, and a story about a new study from the U.S. Department of Energy's (DOE) Argonne National Laboratory, by which scientists have identified a new class of topological materials.

"Recent Scientific Papers of Interest" - a monthly compilation of material analysis papers appearing in recently released journals and publications - features 23 recently published papers on 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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