Press Release

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The September 2018 edition of the *Crystallography Times* newsletter is now online

Crystallography Times vol. 10, No. 9, from Rigaku Oxford Diffraction, focusing on single crystal X-ray diffraction, is available from the company's website.

September 26, 2018 – The Woodlands, Texas. The newest edition of *Crystallography Times* from Rigaku Corporation has been published and is now available on the company's global website.

Crystallography Times is a monthly electronic newsletter published by Rigaku Oxford Diffraction (ROD). With a focus on single crystal X-ray diffraction, it serves the X-ray analysis community by presenting the latest news and crystallographic research.

"Crystallography in the News" is a monthly collection of the latest news and developments from around the world, highlighting the latest research findings in small molecule and protein crystallography and X-ray diffraction.

Among the featured news stories is a story about a team at the University of Western Australia that used X-ray crystallography to identify a compound that causes plants to germinate. The work has implications for food security in the future.

Another news item reports on a Scottish artist's collaboration with a biochemist at Exeter University to develop a method to generate music that represents the three-dimensional structure of proteins. Using the data from X-ray crystallography, a computer assigns note sequences to specific 3D features of the protein, creating a musical composition based on the microbes that live inside and on human bodies.

The Product Spotlight in the current issue features the Rigaku XtaLAB Synergy-S X-ray diffractometer for single crystal X-ray diffraction. The system is based around the PhotonJet-S series of microfocus X-ray sources that incorporate continuously variable divergence slits. These third-generation sources were designed to maximize X-ray photons at the sample by using a combination of new optics, new, longer-life, tubes and an improved alignment system.

The new issue also features a Spotlight section highlighting the Zürich School of Crystallography (ZSC), which took place last June in the School of Pharmaceutical Science and Technology (SPST) at Tianjin University. The school focusses on intensively training a small group of participants to familiarize them with structure determination and validation. The course is designed to provide a challenging set of instructive problems to give participants a broad experience of crystallographic techniques and approaches.

Rigaku XtaLAB Synergy-S X-ray diffractometer for single crystal X-ray diffraction

This month's book review presents *Biological Small Angle Scattering: Theory and Practice*, by Eaton E. Lattman, Thomas D. Grant and Edward H Snell (Oxford University Press, Oxford, 2018). The book addresses the current theory and practice of small angle scattering (SAS) with sufficient detail for a skilled scientist to successfully begin a study in biological small angle scattering.

Also included are recently published scientific papers, a featured video, a schedule of upcoming events, and access to the Rigaku Oxford Diffraction user forum.

Crystallography Times is published monthly. Readers can subscribe to the newsletter or view the current issue online at https://www.rigaku.com/subscribe.

About Rigaku Oxford Diffraction (ROD)

ROD was formed as the global single crystal business unit of Rigaku Corporation after the acquisition of the former Oxford Diffraction organization from Agilent Technologies in 2015. ROD is a leader in the field of single crystal analysis, both in the field of chemical crystallography as well as well as macromolecular crystallography. Formed in 1951, Rigaku Corporation is a leading analytical instrumentation company based out of Tokyo, Japan.

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