Leading With Innovation

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Press Release

The October 2018 Edition of the Crystallography Times Newsletter is Now Available Online

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

Oct 25, 2018 – The Woodlands, Texas. The latest 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 serving the X-ray analysis community, published by Rigaku Oxford Diffraction (ROD). It concentrates on single crystal X-ray diffraction and presents the latest news and crystallographic research.

The "Crystallography in the News" feature brings together current global news and developments in the fields of small molecule and protein X-ray diffraction each month, highlighting the latest research findings and advancements.

Featured news articles include reports about demonstrations by MIT researchers showing that some of the atoms in an enzyme called carbon monoxide dehydrogenase can rearrange themselves when oxygen levels decrease. Another news item presents a study by an international team of researchers using crystallography to "photograph" the first moments of the molecular behavior that allows some cancer cells to repair their DNA. The findings will aid in the understanding of why such cells can resist radiotherapy.

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The Product Spotlight in the current issue features the Rigaku HyPix-6000HE Hybrid Photon Counting (HPC) X-ray detector. In addition to direct X-ray photon counting, single pixel point spread functionality and extremely low noise, the HyPix-6000HE HPC offers a small pixel size of 100 microns, which enables better resolution of reflections for long unit cells and improves reflection profile analyses.

Rigaku HyPix-6000HE Hybrid Photon Counting Detector

Each month, the "Lab in the Spotlight" section highlights a different laboratory from the global community of X-ray diffraction facilities. This month's edition features The Fujita Laboratory in the Department of Applied Chemistry, The University of Tokyo. The Fujita lab studies three major topics in chemistry that are inspired by self-assembly in biological systems - self-assembling molecular systems utilizing transition metals, the study of the chemistry of "isolated nano-space," and finally, the study of coordination polymers.

A selection of 17 recently published scientific papers, a schedule of upcoming events, a book review and two featured videos are also included. *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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