



Sine Larsen, Professor in structural chemistry, former IUCr president and Director of Research at ESRF, University Copenhagen

“Our new D8 VENTURE SC-XRD system was installed within less than a week in the spring of 2013. The new system is very user friendly, and it is used heavily as an analytic tool by the Department’s preparative chemists. Equally important is the use of the diffractometer for our high-accuracy single crystal diffraction experiments. The instrument serves also as an crucial component in the teaching crystallography at all levels. Here it is essential that it can be used for both protein crystals and crystals of smaller molecules. I am appreciating the presence of an in-house system for the daily routine work and advanced crystallographic research, and it complements well the synchrotron data measured at the large facilities.

Our new D8 VENTURE, replacing our 15 year old workhorse a Nonius KAPPA CCD, is equipped with $1\mu\text{S}$ microfocus sources, a KAPPA goniometer and the new CMOS-based PHOTON 100 detector. We are really amazed and impressed to what extent the new D8 VENTURE has changed our daily scientific life. Today, we can collect data from significantly smaller, weakly diffracting samples. We benefit from the option of measuring data on the same sample first using molybdenum- and then with copper radiation in one single experiment without any stop or reconfiguration of the instrument. The APEX2 software package nicely takes care about all parameters required for the different wavelengths and the entire data processing is easy to perform, nicely transparent and delivers good results in almost no time. Like previous systems, the new D8 VENTURE will be used for charge density investigations.”

D8 VENTURE

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