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● **Welcome**

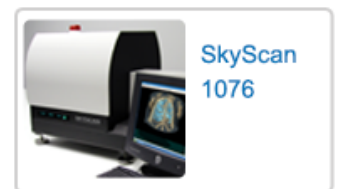
This eighth issue of the Bruker microCT academy Newsletter gives an overview of the different workflows for each SkyScan system that will guide you through the essential steps on how to setup the appropriate parameters to obtain a high image quality.

● **SkyScan MicroCT System Workflows**

Running microCT scans with not-optimally adjusted acquisition parameters can result in images containing microCT-related artefacts. These artefacts may lead to misinterpretation of the data and even circumvent the analysis. Although a lot of microCT-related artefacts such as post-alignment, ring artefacts and beam hardening can be eliminated during the reconstruction and post-processing of the dataset, there is a limit to how much the software can compensate. Therefore, the correct selection of the scanning settings,

such as voltage, filter, exposure time, rotation step, averaging, etc., is crucial in order to obtain good results. The method notes linked to this Bruker microCT academy Newsletter provide a workflow or checklist for each type of SkyScan microCT system, and are intended to be quick-start guides that describe how to set up a good scan step by step, taking into account the common pitfalls. Depending on the application and desired image quality, these parameters may be further optimized and refined.

As a user of our systems you are welcome to download the detailed method notes. Please click on the image of the system that you are using and login to your account. If you haven't had an account yet, please subscribe at: <http://partners.bruker-microct.com/subscribe>.



● Bruker microCT News

We would like to remind you of our first Asia-Pacific User Meeting which will be held on 18 & 19 November 2014 in Taipei, Taiwan. The program includes user presentations, workshops showing the latest developments in hardware and software and hands-on training sessions covering both life science and material science applications.

Detailed information can be found through our [website](#). Online registration is still possible until October 17th at <http://partners.bruker-microct.com/APUM>. We hope to welcome you there!

● Upcoming Events

Bruker microCT will participate with an exhibit in the forthcoming conferences. Please click the links for more information. We hope to see you there!

2014:

- [IMPC](#) Oct 20-24, Santiago, Chile
- [XRM](#) Oct 26-31, Melbourne, Australia
- [Process Mineralogy](#) Nov 17-19, Cape Town, South Africa
- [MRS Fall](#) Nov 30-Dec 5, Boston, USA

2015:

- [AADR](#) Mar. 11-14, Boston, USA
- [EMIM](#) Mar. 18-20, Tübingen, Germany
- [ORS](#) Mar. 28-31, Las Vegas, USA

● Image of the Month:

False color 3D volume rendering of a defect inductor component scanned on the SkyScan1272 at 3 μm pixel size (100 kV, 0.11 mm Cu filter). The defect or shortcut is indicated by an arrow.

