

# STOE Diffractometers empowering Mineralogical Crystallography

**T. Pippinger<sup>1</sup>**

*<sup>1</sup>STOE & Cie GmbH, Darmstadt, Germany  
e-mail: pippinger@stoe.com*

STOE, established in 1887, manufacturing equipment for the optical examination of crystals, has been at the forefront of powder and single crystal X-ray diffraction since the 1960s. STOE invented and patented the transmission geometry technique for Powder XRD and additionally, they developed the first pixel detector XRD system with an open Eulerian cradle for single crystals.

Headquartered in Darmstadt, Germany, STOE maintains complete in-house capabilities for research and development, software programming, electrical and mechanical engineering, and production. This integrated approach enables STOE to offer both standard and customized solutions to its customers. Whenever it comes to quality, STOE accepts no compromises.

STOE's latest instruments facilitate precise profile and Rietveld analyses, as well as ultrafast single crystal diffraction experiments on even the tiniest crystals. Furthermore, high-temperature and high-pressure accessories are available, which can be seamlessly integrated in the hardware and software, allowing for the convenient simulation of non - ambient inner earth conditions.

These solutions tailored to Mineralogical Crystallography and more will be discussed in the presentation.