

Microsymposium

MS38.O01

Industry and large scale facilities, a cooperation of mutual benefit

T. Wroblewski¹

¹DESY, FS-PS, Hamburg, Germany

Large scale facilities like synchrotron radiation sources offer a variety of techniques for the characterization of materials and processes. These are not only suited to answer academic questions but may also help solving problems of industrial relevance. On the other hand the complexity of industrial products and processes demand sophisticated techniques for their investigation that may go beyond the requirements of pure academic research. The presentation will give examples on how the cooperation of science and industry triggered progress in research for mutual benefit in the field of (in operando) XAFS, diffraction scattering and other techniques. A paramount aspect in this context is the availability of auxiliary (not synchrotron radiation based) techniques, laboratories, equipment and expertise. A non negligible issue is occupational health and safety including radiation and bio hazards. The advanced photon sources at DESY in combination with further laboratories and research institutes on site are an excellent example for an environment enabling the investigation of manifold tasks of industrial relevance.

Keywords: Industry, synchrotron radiation