


Methods, IAAC, Hillebrecht

<p>Research Stereomicroscope</p> <p><i>Microscopy</i></p>	<p>Model: <i>Olympus ZSX12 with SZX Illumination Base and ColorView8 CCD-camera</i></p> <p>Unit and Room: <i>Inorg. Chemistry, Basement, R. -134</i></p> <p>Responsible: <i>Anita Becherer, 203-6125</i></p> <p>Further information:</p>	
<p>Short Description:</p> <p>Stereomicroscope with transmitted and incident light and CCD-camera for live-recording pictures</p> <p>Zoom ratio 12,8 (0,7X to 9X)</p> <p>WD 74mm objective</p> <p>SIS (Soft Imaging System) Software analySIS 3.0 for image processing</p>	<p>Picture of the Equipment</p> 	
<p>Available Experiments/Techniques:</p> <p>Picture exposure of crystals, liquids and solid samples in transmitted or incident light</p> <p>Depth of field pictures with EFI (Extendet Focal Imaging) calculation</p> <p>MIA (Multiple Image Alignment) for big samples</p> <p>3D-measurements</p> <p>Digital Image Processing for quantitative multiphase analysis</p>	<p>Special Equipment:</p> <p>Transmitted Brightfield/Darkfield Illumination Base Analyzer and simplified transmitted light polarizer</p> <p>Olympus Camedia 3040 digital camera</p>	
<p>Measurements on the equipment are currently done by:</p>	<p><input type="checkbox"/> Students</p> <p><input type="checkbox"/> Students after Introduction</p> <p><input checked="" type="checkbox"/> Students after extensive training</p> <p><input checked="" type="checkbox"/> Trained scientific service personal</p>	
<p>Recent Publications, where this instrument was important (optional): Give citation</p>	<p>Chem. Eur. J. 2008, 14, 7331; Angew. Chem. 2005, 118, 172.</p>	
<p>Typical problems that may be solved with this instrument:</p>	<p><i>microscopy of solid samples; digital image processing for particle size determination and quantitative multiphase analysis</i></p>	