

Methods, IMC, Mülhaupt

<p align="center">Environmental Scanning Electron Microscope</p> <p align="center"><i>(SEM/ESEM)</i></p>	<p>Model: <i>Quanta 250 FEG (FEI)</i></p> <p>Unit and Room: <i>ZfN, Albertstraße 23,back building, basement, room nr. 9</i></p> <p>Responsible: <i>Dr. Yi Thomann Dr. Ralf Thomann</i></p> <p>Further information: <i>http://www.fmf.uni-freiburg.de/service/dienstleistungen/mikroskopie/index_htm/</i></p>	
<p>Short Description:</p> <p>SEM/ESEM machine with field emission gun and analytical EDX system</p>	<p>Picture of the Equipment</p>	
<p>Available Experiments/Techniques:</p> <p>SEM measurements under high- and low-vacuum conditions, and resolutions down to about 1.5nm. The machine allows a watery gaseous environment in the specimen chamber up to pressures of 4000 Pa, for the observation of biological or medical samples in their natural state.</p> <p>The microscope is equipped with an Oxford EDX system for elemental analysis.</p>		
<p>Special Equipment:</p> <p>Sample preparation equipment</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>Polyethylene/synthetic boehmite alumina nanocomposites: eXPRESS Polymer Letters Vol.4, No.x (2010) x-x, in print</p>	
<p>Typical problems that may be solved with this instrument:</p>	<p><i>Morphological characterization</i> <i>Elemental analysis</i></p>	