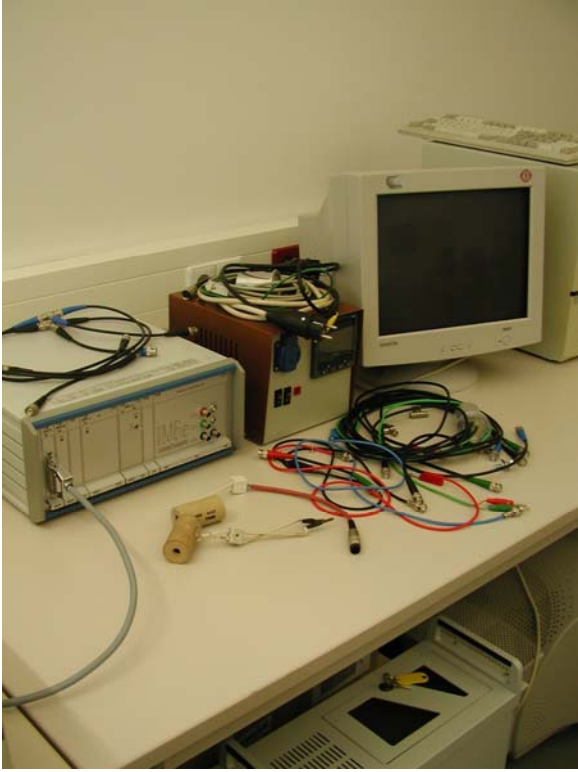


Methods, IAAC, Hillebrecht

<h2 style="text-align: center;">Impedance Spectroscopy</h2>	<p>Model: <i>Zahner Elektrik IM6e Electrochemical Workstation</i></p> <p>Unit and Room: <i>Inorg. Chem., R. 142, (Chem. I)</i></p> <p>Responsible: <i>Dr. Thilo Ludwig</i></p> <p>Further information: <i>http://portal.uni-freiburg.de/fkchemie/Ausstattung</i></p>	
<p>Short Description:</p> <p>Electrochemical workstation with frequency generator and analyzer (DC - 1MHz), internal potentiostat (max. 12V, max. 1A), interface and Thales software for measurement, evaluation and simulation</p>	<p>Picture of the Equipment</p> 	
<p>Available Experiments/Techniques:</p> <ul style="list-style-type: none"> - 2-, 3- and 4-Pole measurements - Impedance measurement, current/potential curves, cyclic voltammetry, capacity recording 		
<p>Special Equipment:</p> <p>High temperature device (293 - 673K): Quartz sample holder, Eurotherm 2404 controller</p> <p>Low temperature device (10 - 300K): Brass sample holder, Leybold cryostat</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>Typical problems that may be solved with this instrument:</p>	<p><i>Materials characterisation: conductivity measurements, determination of band gaps, phase transitions</i></p>	