## Title: Organic Electrochemistry - From Principles to Synthetic Transformations

## **Gerhard Hilt**

**Abstract**: Starting from basic requirements and considerations for performing organic electrochemical transformations, such as instruments/apparatus/supporting electrolytes etc.; different cell designs and modes of operation for preparative organic electrochemical transformations will be briefly discussed. The main focus will be directed towards applications of direct and indirect (= catalysed) electrochemical conversions which will be demonstrated on selected examples – either reported in the literature or on transformations investigated in the Hilt group over the last couple of years. Also, a special emphasis will be directed towards different aspects of paired electrolysis for productive transformations (other than  $H_2$  generation) at the anode as well as at the cathode to generate valuable products.