

Univerza  
v Ljubljani

Fakulteta *za kemijo*  
*in kemijsko tehnologijo*

p.p. 537, Večna pot 113  
1001 Ljubljana  
telefon: 01 479 80 00  
faks: 01 241 91 44  
dekanat@fkkk.uni-lj.si



**VABILO NA PREDAVANJE  
V OKVIRU DOKTORSKEGA ŠTUDIJA  
KEMIJSKE ZNANOSTI**

**Prof. Mogens Bjerg Mogensen**

*DTU ENERGY, Department of Energy Conversion and Storage,  
Technical University of Denmark*

z naslovom:

**Fundamental electrochemistry, which is  
usually not taught**

**v petek, 21. oktobra 2016 ob 15:00 uri**  
v predavalnici 3 v 3. nadstropju Fakultete  
za kemijo in kemijsko tehnologijo, Večna pot 113

*Vljudno vabljeni!*

**Abstract:**

Even at university level, really fundamental electrochemistry such as the important types of potential, i.e. Fermi potential, Galvani potential, surface potential and Voltage potential, is usually not taught to the students. The lecture first defines these potentials and presents how both Fermi and Galvani potentials are contributing to forming half-cell potentials. Next, the course of the electrical potential through the cell under different conditions is explained. The three principle modes of cell operation (open circuit potential, electrolysis (charging) and fuel cell (discharging)) are illustrated with examples. Finally, the case of mixed electron and ion conduction in solid electrolytes and electrodes is treated and illustrated with several practical examples from the solid oxide cell world.