

Supervisor's report

**Bc. Jitka Poštulková**

**MACROPOROUS COPPER ELECTRODES IN ELECTROANALYSIS OF ORGANIC COMPOUNDS**

The topic of the thesis included preparation screen-printed carbon electrodes with macroporous copper film and thorough study of used pore diameter on the analytical performance of electrodes in electroanalysis of selected saccharides. Moreover, the effect of porous surface on the oxidation current response of several amino acids and catecholamines was studied and compared to that of *ex situ* copper film electrode.

Diploma student fulfilled all the tasks required for successful completion of thesis. She worked fully independently during each stage of experimental work and proved her skills in solving the problems mainly associated with the several-step manual preparation of copper porous screen-printed electrodes. After a short training, she fully conducted characterization of porous surfaces by scanning electron microscopy by herself with no further assistance. She performed electrochemical experiments as it was required and evaluation and presentation of experimental data in publishable form as well.

To illustrate the attitude of diploma student dedicated to complete the last duty at the university, she decided to write the thesis and to defend it in English, which is remarkable and very unusual for this level of study. She is the only MSc. non-foreign student from electrochemistry group, and probably from all the others, in whole history of Department of Analytical Chemistry presenting her diploma work in English. The manuscript required only minor corrections, mainly to technical style of language and electrochemical terminology. The only shortcoming was a lack of thorough discussion of obtained results; only brief summary was presented in each chapter. In conclusion, Bc. Jitka Poštulková accomplished her diploma thesis successfully with no doubts raised. I recommend the thesis for defense and evaluate it as

**Grade A (Excellent).**



Pardubice, May 29, 2015

Ing. Radovan Metelka, Ph.D.