



Confidential

Supervisor's Review of USB RIFCH PhD Thesis

Surname of the PhD student: Dipl.-Ing. Daniel Červený	Name of supervisor: Assoc. Prof. Dipl.-Ing. Tomáš Randák Ph.D.
Title of PhD thesis: New approaches in biomonitoring of extraneous substances in aquatic environment	

OVERALL COMMENTARY ON THE PhD THESIS

Commentary on the PhD thesis

The thesis is commented compile of 3 already published articles and of 2 manuscripts submitted to international journals. Ph.D. candidate is the first author of 2 published articles and 2 manuscripts. The main goal of the thesis was to develop and evaluate alternative approaches to monitor extraneous substances in an aquatic environment. The thesis is very well structured and presents to reader the workflow done during Daniel's study. The introduction part is written up with clear form, which is connecting all included papers in inherent and logic complex. The specific objectives are well defined in the introduction part too. The work then closely follows the structure specified in the Introduction part. Each chapter covers a specific topic and the final article or manuscript is always included. The discussion is well written in the same order. The conclusions of the work are well summarized together with future perspectives in this research area.

In my opinion the thesis is well written, bringing a new knowledge in the field of monitoring of aquatic environment contamination with high potential for practice use based on the experimental work. This can be well documented by the list of journals which accepted Daniel's articles for publishing – Environmental Research; Ecotoxicology and Environmental Safety and Water Research.

General commentary

Daniel Červený was a very active and creative student in my laboratory during his Ph.D. study (2012-2016). All the work handed to him was completed satisfactorily. He carried out several field experiments and follow-up analyses. Daniel published his results in 3 peer-reviewed papers in highly reputable journals (IF 2.7 – 5.5), in 2 methodologies for practice and presented it at international conferences. All published papers and then two submitted manuscripts are included in the PhD thesis. He completed 3 months of training at Department of Ecology and Environmental Sciences, Umea University, Umea, Sweden. The stay was focused on behavioral studies of fish affected by various antidepressants. Daniel was also involved in teaching of bachelor students at our faculty.

I think that Daniel has an excellent scientific and teaching potential. From my point of view Daniel Červený is fully qualified for defense of his PhD Thesis.



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a ochrany vod
Faculty of Fisheries
and Protection
of Waters

Jihočeská univerzita
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in České Budějovice
Czech Republic

FINAL RECOMMENDATION

- can be recommended for defence of PhD Thesis
- can be recommended with reservations for defence of PhD Thesis
- can not be recommended for defence of PhD Thesis

FROV JU VODŇANY 2.5.2016
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Date and place

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surname and signature