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**Evaluation of the teaching and scientific activity of
Doc. Ing. Erika Tobiašová, PhD.
in relation to the commencement of the procedure for the title of professor
to be conferred in field 6.1.8. Agrochemistry and plant nutrition**

Doc. Ing. Erika Tobiašová is a graduate of the Slovak University of Agriculture in Nitra, Faculty of Agrobiological Sciences and Food Resources. Since 1997 she was working at the Department of Soil Science SUA in Nitra and in 2000 she started working as an academic teacher. In 2002 she was awarded the doctoral degree and in 2010 the title of docent (associate professor) in field 6.1.8. Agrochemistry and plant nutrition.

Teaching activity evaluation

Doc Ing. Erika Tobiašová has been an academic teacher for 19 years. In the first years of her teaching activity she was providing classes in Extraneous substances and soil hygiene (2000-2001) and Soil Science. In the successive years her scope of teaching activity was developing regularly and currently she provides classes in the following courses: Soil Science; Soil Biology (the coordinator), since 2004; Soil Organic Matter Models (the course coordinator), and since 2007; Chemistry of Soil and Organic Matter (the coordinator), since 2010; Soil Ecology (the coordinator) – since 2010. Besides in 2010 - 2014 she was managing and coordinating the course Soil Physics. One shall stress that Doc Ing. Erika Tobiašová was the initiator of introducing the following courses for students: Soil Biology, Soil Organic Matter Models at the same time, the author of the topics of lectures and tutorials.

Doc. Ing. Erika Tobiašová provides classes to the students of the first, second and third degree programmes in a form of lectures and tutorials. She also delivers classes in English

with international students staying at the University as part of ERASMUS programmes. Besides, a few times she delivered lectures for students at international Universities (University of Limerick in Ireland; University of Science of Technology in Bydgoszcz (Poland)).

She has been a tutor (supervisor) of 89 B.Sc. and M.Sc. dissertations and the supervisor of two doctoral dissertations. She is the co-author of 5 academic scripts and 2 textbooks for students: Soil Science (2009) and Soil organic matter (2016).

Scientific activity evaluation

The research problems investigated by Doc. Ing. Erika Tobiašová covers various aspects related to the organic matter of soils, especially determining the content and quality of organic matter, especially labile and stable fractions of humus; the studies and modelling the organic matter balance; the research of the mechanisms of carbon stabilization in soils and the factors facilitating the sequestration of organic carbon in soils; the research of the intensity of post-harvest residue mineralization as well as the factors affecting the rate of mineralization and humification of plant residue.

The scientific accomplishments of Doc. Ing. Erika Tobiašová includes 164 original creative works, including 29 publications in foreign journals, 10 abstracts published at foreign conferences and 6 monographs. The total number of citations is 360, of which 99 in WoS and SCOPUS databases. Such a high number of citations of the publications by Doc. Ing. Erika Tobiašová indicates a high quality of her research and the significance of her research results. Doc. Ing. E. Tobiasová has made numerous reviews of publications submitted to print in foreign journals, including a high IF value (e.g. Plant and Soil, Pedosphere), and provided reviews of research projects.

An essential point in evaluating the scientific activity is managing or taking part in research projects. In that respect Doc. Ing. Erika Tobiašová can demonstrate considerable accomplishments. She has taken part in the execution of 14 research projects financed by VEGA (12 projects), APVV and APVT, including 3 projects she was the head of, deputy head in one project and in the other 10 – a researcher.

Doc. Ing. Erika Tobiašová has been actively cooperating with scientific facilities at home and abroad.

The description of the scientific activity must also stress an essential contribution of Doc. Ing. Erika Tobiašová in science popularizing thanks to her active participation at international scientific conferences and domestic symposia where she presented her

accomplishments as posters and oral presentations. She has also been invited twice to deliver speeches.

She is a member of International Humic Substance Society (IHSS) – Denver, Colorado, USA; Societas pedologica slovacica – Bratislava, SR; Department of Soil and Soil Protection Slovak Academy of Agricultural Sciences – Bratislava, SR.

Final conclusion

With a detailed analysis of the materials presented for review, my evaluation of the teaching and scientific activity is highly positive. Doc Ing. Erika Tobiašová, PhD. has not only satisfied but also, in many points, considerably exceeded the requirements for the Candidates applying for the title of Professor. One should stress especially the fact that the teaching activity of Doc. Ing Erika Tobiašová, PhD. is considerably related to her research interests, which allows her to share the latest knowledge in that field with students.

With the above in mind, I hereby address the Scientific Council of the Faculty of Agrobiolology and Food Resources, Slovak University of Agriculture in Nitra, for conferring the title of professor to Doc. Ing. Erika Tobiašová, PhD. in field 6.1.8. Agrochemistry and plant nutrition.

Prof. dr. hab.inž. Božena Dębska