

REVIEW

Concerning the competition for occupation of the academic position
"Assoc. Professor" in the scientific specialty Plant growing ", announced
in the SG N 98 of 17.11.2020 with candidate Violeta Steliyanova Valcheva
at the Agricultural University, Plovdiv.

Reviewer: Assoc. Prof, Paunka Mladenova Bozhinova, PhD, professional field 6.1 Plant growing", appointed from the Rector of the Agricultural university as a member of the Scientific Jury with Order № RD 16-52/22.01.2020.

Only one candidate has participated in the competition for the academic position of "Associate Professor" announced for the needs of the Department of Agrochemistry and Soil Science at the Agricultural University – Plovdiv, Chief Assistant Violeta Steliyanova Valcheva.

The competition documents have been prepared in accordance with the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria, and the rules of the Agricultural University, Plovdiv.

1. Brief introduction of the candidate.

Ch. Assistant Dr. Violeta Valcheva was born on June 12, 1980 in the city of Pleven. During the period 1998-2003 she was a student at the Agricultural University - Plovdiv with a Bachelor's degree in Agricultural Economics. In 2004-2005 she obtained a master's degree in Accounting and Control, and from 2006 to 2011 he was a doctoral student in the scientific specialty "Soil Science". After successfully defending her doctoral dissertation, she obtained the scientific-educational degree "Doctor" in the scientific specialty "Plant Growing". Since 2008 she has been appointed as an assistant in soil science, and since 2011 she has been a Chief Assistant. She understands fluently spoken and read in English and Russian. Participation in conversations and independent oral presentation of materials and discussions is at a good level. Her computer training is significant, which is especially important not only for a scientist, but also for a soil scientist who deals with mapping and processing a lot of analytical information. She works with programs for mapping, large-scale imaging and three-dimensional visualization of soil and landscape reclamation sites. She works with CAD-CAM; applications based on the Autocad chassis and related applications - Mapinfo, Surpher 12. Continues to master applications related to the visualization and typing of water regime in the soil, which is the basis for many soil reclamation studies. SPSS, MS Office Package: Windows 95/98/2000 / ME / XP / Vista, (Word, Excel, Access, Power Point); Database Systems, Internet

2. General description of the scientific production.

In the competition for the academic position of "Associate Professor" Ch. assistant Violeta Valcheva. participates with a total production of 35 works, grouped as follows:

- *Publications related to the educational and scientific degree "Doctor"* - Dissertation and 3 articles that are not subject to consideration;
- The publications with which the candidate participates in the current competition for the academic position of "Associate Professor" are 31 issues that are subject to review
- The candidate for the academic position "Associate Professor", Assistant Professor Violeta Valcheva with the submitted documents shows that with her scientific and teaching activities fully meets the minimum national requirements of by the Law for the Development of the Academic Staff of Republic Bulgaria and the Regulations of the

Agricultural University for the position. The coverage of the criteria is presented as follows:

- **Indicator A1** *has a minimum requirement of 50 points.* The presented materials for the competition for associate professor are 50 points and correspond to 100% of the requirements.
- **Indicator B 3** *covers 169.5 points with the presented publications.* The minimum requirements of 100 points exceeds the required criteria.
- **Indicator G** *Presented articles and reports published in scientific journals, referenced and indexed in world-famous databases with scientific information and articles and reports published in non-refereed journals with scientific review or published in edited collective volumes receive 206.15 points exceed the requirements for a minimum of 200 points.*
- **Indicator D** *receives 50 points, just as the minimum requirements - 50 points.*

The submitted documents for the competition with the attached publications show a total number of points 475.65

- *Publications in peer-reviewed and referenced scientific journals - 12 issues;*
- *Publications in conference proceedings - 19 issues;*

The personal participation of Ch. Assistant Violeta Valcheva in the above 31 works is illustrated by the fact that 3 numbers. are independent, in 11 pieces - she is the first, in 12 pieces - is the second, and in the remaining 5 pieces she is the third and next author.

❖ *Study guides in Pedology - 1 issue.*

For the preparation of the review 31 issues are subject to analysis. Publications, grouped as follows:

- *Scientific publications, referenced and indexed in world-famous databases with*
- *Articles and reports published in scientific journals, referenced and indexed in world-famous databases with scientific information - 11 issues;*
- *Scientific publications in unreferenced journals with scientific review or in edited collective volumes - 10 issues.*

Most of the publications are in English. The candidate is a co-author of the Guide for Soil Science Exercises. There is a correct information for all articles, publishers, participation in the joint work, citation and so on. Publications related to the educational and scientific degree "Doctor" - Dissertation and 3 articles are not subject to consideration;

3. Teaching activity.

Educational employment of the candidate.

From the presented certificate it is evident that Ch. Assistant Professor Valcheva in the period 2015 - 2020 has had exercisis and lectures in the Bachelor's and Master's degrees. She had direct classroom employment from lectures and exercises and out of classroom employment of a total of 2560.9 hours. The lectures are equated in exercises.

The teaching activity is complemented by the guidance of five successfully defended graduates. One defended in 2012, two were enrolled in 2018, and in 2019 they defended. Two graduates were enrolled in 2019 and successfully defended in 2020. Official notes are presented for all graduates by years.

Published teaching materials.

Guide to soil science exercises

4. Research activity.

Areas of publication.

The areas of publication are outlined in the following areas:

- Studies related to the study of soil acidity in vineyards
- Studies on the specifics of terroir with regard to the planting and cultivation of vineyards and some perennials
- Studies related to the study of soil acidity in lavender

Citing and referring scientific publications.

With regard to citations in scientific journals, referenced and indexed in world-famous databases with scientific information or in monographs in collective volumes, the candidate, Ch. Assistant Professor Valcheva, has 50 points. A list of unquoted publications and where they are cited is presented.

Participation in research projects.

From 2013 to 2017, Ch. Assistant Professor Valcheva has participated in 3 research projects funded by Devnya Cement, Agricultural University - Plovdiv and Minyo Staykov Commerce

5. Remarks and recommendations.

My recommendation is to make the contributions shorter. They are quite descriptive, and all this is in the publications. The studies that have been done so far with regard to vineyards not only depending on the acidity, but also on the landscape and the exposure are very good and I recommend that this approach be transferred to fruit species. The data that could be obtained can be used to adjust some climate coefficients and soil indicators in relation to land assessment. The existing methodology is being developed, as long as in-depth research is done in different regions of the country with one-age plantations in order to have a basis for comparison. This is largely achieved in vineyards.

If it is possible to continue research on lavender, to analyze the composition of lavender oil from plantations with different exposure on the slopes and on flat terrain, of course. Projects of owners of such plantations can be offered.

6. Conclusion.

Based on the analysis of the pedagogical, scientific and scientific-applied activity of the candidate, I believe that Ch. Assistant Professor Violeta Steliyanova Valcheva fully meets the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria, the Rules for its implementation and the Rules of the Agricultural University – Plovdiv for its implementation, for participation in the competition for the occupation of the academic position "Associate Professor".

In the competition Ch. Assistant Valcheva participates with a sufficient number of scientific papers published in Bulgarian and foreign specialized publications. Her research is methodically precise and very complex - active acidity, liming, fertilization, irrigation, terroir, various substrates, suitability of erosive terrains, soil and climatic assessment of the suitability of lands for growing strawberries, raspberries and blackberries in the area of G. Delchev, effectiveness of herbicides, etc .. The data obtained are properly analyzed and summarized in tabular and graphical form, well illustrated, using modern advances in science on the problems under study. The candidate defines only two of her contributions as applied, but most of them have a scientific-applied nature and are useful for practice.

As a Ch. As. she is a co-author in writing textbooks. Under her leadership, they defended five graduates.

All this gives me reason to positively evaluate its overall activity.

I allow myself to suggest to the esteemed Scientific Jury also to vote positively, and the Faculty Council of the Faculty of Agronomy at the Agricultural University - Plovdiv to elect Ch. Assistant Professor Dr. Violeta Steliyanova Valcheva for "Associate Professor" in the scientific specialty "Plant Breeding".

Date: 28.02.2021

City. Sofia

MANUFACTURED

OPINION:

(Assoc. Prof. Dr. P. Bozhinova)