

Statement



Concerning the competition for "Associate professor" in the scientific specialty „Melioration” announced in the State Gazette No. 98 of 17.11.2020 with candidate Chief Assistant Radost Petrova Petrova, PhD

From Assoc. Prof. Georgi Yordanov Georgiev, PhD Member of the Scientific Jury appointed pursuant to order № RD 16-10 / 19.01.2021 of the Rector of the Agricultural University – Plovdiv

1. Brief introduction of the candidate.

Radost Petrova Petrova was born on September 12, 1985 in Karlovo town, Plovdiv region. In 2004 she graduated School of Nutrition and Tourism "Asen Zlatarov" in Plovdiv town. In 2008 she graduated with excellent marks higher education and obtained a Bachelor's degree in specialty "Agronomy-Hydro melioration" She also completed a Master's course in "Decorative Plants and Landscape Design" in 2009 with excellent marks too, and acquired a Master's degree. In 2014 she defended a dissertation and received the educational and scientific degree "Philosophy Doctor" in the scientific specialty "Melioration (including soil erosion and its control)". Since 07.05.2009 to 19.01.2015 she held the position of "Assistant", and since 19.01.2015 she is currently "Chief assistant" at the Department of "Melioration, Land Management and Agro physics" of the Agricultural University-Plovdiv.

2. General description of the scientific production.

In the competition for "Associate Professor" Chief Assistant Radost Petrova Petrova, PhD participates with a total production of 67 works, grouped as follows:

- Scientific publications on the nomenclature specialty - 65, including:
- Publications related to the PhD thesis -4 numbers who are not subject to review;
- Habilitation work (monograph) -1 number;
- Publications with impact factor - 1 issue;
- Publications submitted in referenced and indexed issues in the world-famous scientific information databases - 16 issues;
- Publications submitted in non-refereed peer-reviewed journals or in edited collective volumes -43 issues;

The results of the scientific production Chief Assistant Radost Petrova, PhD presents on the European and world international conferences and symposiums with 3 poster reports. She presents 12 oral reports and 37 poster reports at scientific forums in Bulgaria.

The personal participation of Chief Assistant Radost Petrova, PhD in these 61 works is illustrated by the fact that in 24 issues is first (39.3%), in 23 issues is second (37.7%), and in the remaining 14 issues (23 %) – is third and next author.

For the preparation of this statement 61 publications are subject to analysis.

3. Pedagogical activity.

From the certificates and references provided by the management of AU - Plovdiv it can be seen that as of 01.12.2020 the length of service of Ch. Assistant Professor, Dr. Radost Petrova at the University of Plovdiv - as a "teacher" is 11 years and 06 months. During the period from 2015 to 2020 she had direct classroom employment from lectures, exercises and extracurricular employment for a total of 2059.4 hours. The average annual workload is 412 hours, which determines a relatively large number of students working with part-time and full-time students in

the specialty "Melioration". She gives lectures on the disciplines "Irrigation and drainage" and "Technologies for irrigation of parks". Leads and exercises in the disciplines - Irrigation and drainage, Irrigation regime, Irrigation techniques for parks, Irrigation technologies in vineyards. The pedagogical activity is complemented by the management of 8 successfully defended graduates - students from the Faculty of "Viticulture – Horticulture" at the Agricultural University of Plovdiv.

The monograph "Irrigation of garden beans" developed in co-authorship with Prof. Alexander Matev, PhD is a valuable textbook for specialists in the field of agriculture, for students studying in agronomic faculties, as well as for farmers interested in irrigation.

4. Research activity.

Areas of publication.

Research activity of Chief Assistant Radost Petrova, PhD is focused mainly on irrigation and its impact on the productivity of a number of crops - beans (garden and field) - 21 publications, sunflower-9, soybean-14, corn (for grain and silage) -8, grass mixtures-3, greenhouse tomatoes-1 and celeriac-1.

By precisely carried out one-factor and two-factor field experiments is provide answers to actual questions, such as:

- determining the optimal pre-irrigation humidity;
- the possibilities for reduction of the irrigation norms and sum of the irrigation norms;
- the influence of irrigation norms and irrigation regime on the leaf area and photosynthetic potential of garden beans;
- the influence of the different irrigation regimes and irrigation schemes on the crop productivity;
- application of optimal and disturbed irrigation regime and regulated water deficit;
- determination of the evapotranspiration (ET) and its constituent components;
- determination of the dependencies between ET and yield, between irrigation norm and yield;
- determination of yield loss by cancellation of irrigation during critical phenophases of maize and soybeans;
- indirect calculation methods for determining ET in 25 crops, etc.

I accept the author's reference for the contributions. I consider that they are described much more in detail, than necessary. A total of 49 contributions were formulated: 21 – scientific-theoretical, 26 – scientifically-applied and 2 confirmatory.

Citation and referencing of scientific production.

The author's reference to the citations shows that the scientific works of Chief Assistant Radost Petrova, PhD are cited in 20 publications, of which 9 with impact factor. Seven citations are in scientific journals, referenced and indexed in world-famous databases, 7 citations are in non-refereed journals with scientific review (foreign editions) and 6 citations are in non-refereed journals with scientific review (Bg editions).

Participation in research projects.

In the 2010-2015 period, Chief Assistant Radost Petrova, PhD participates in two competitively funded projects at Agricultural University-Plovdiv, and in the 2017-2020 period she is a participant in project № P164, funded by the Agricultural Academy -Sofia.

The researching and pedagogical activities, as well as the team work in the Department of "Melioration, Land Management and Agro physics" of the Agricultural University - Plovdiv have

formed in Dr. R. Petrova a clearly recognizable style of a "scientist - researcher" in the field of scientific specialty "Melioration".

5. Remarks and recommendations.

I have no significant remarks. I have the following recommendation to Chief Assistant Radost Petrova, PhD: to find a suitable way to promote and introduce the results of its research – by popular science articles, brochures, technologies, manuals, and other.

5. Conclusion.

Based on the analysis of the pedagogical, scientific and scientific-applied activity of the candidate, I consider that Chief Assistant Radost Petrova Petrova, PhD meets the requirements of Law on the Development of the Academic Staff in the Republic of Bulgaria, Regulations for Application of the Law for the Development of the Academic Staff in the Republic of Bulgaria and the Regulations of the Agricultural University for its application. She significantly exceeds the national minimum scientific metric requirements for acquiring the academic position of "Associate professor" (with the required total number of 400 points, 735,42 are scored).

All this gives me reason to evaluate **POSITIVELY** the overall activity of Chief Assistant Radost Petrova Petrova, PhD.

I allow myself to suggest to the esteemed Scientific Jury also to vote positively, and the Faculty Council of the Faculty "Viticulture – Horticulture" at the Agricultural University-Plovdiv to elect Chief Assistant Radost Petrova Petrova, PhD, for "**Associate Professor**" in the scientific specialty "Melioration".

Date: February 18, 2021
Plovdiv city

Statement prepared by: 
/Assoc. Prof. Georgi Georgiev, PhD/