

OPINION

by Professor Dr. Radoslav Iliev Ivanov,

Shumen University "Ep. K. Preslavski" - pensioner

Subject: Procedure for occupying the academic position "Professor"

By order No. RD-235/15.07.2024 of the Rector of the University "Prof. Dr. Asen Zlatarov" Burgas Prof. Dr. Hristo Bozov, I have been appointed as a member of the Scientific Jury under the procedure for a competition for the academic position of "Professor" in Higher Education Region 4. Natural Sciences, Mathematics and Informatics, Professional Direction 4.2. Chemical sciences, Scientific specialty "Chemistry", promulgated in the "State Gazette" number 43 of 17.05.2024 with a period of 2 months from the announcement.

According to the decision of the preliminary meeting of the NJ, held online and via video link, and based on the Order of the Rector of the University "Prof. Dr. Asen Zlatarov" Burgas, I was assigned to prepare a statement of materials for a competition for the academic position of professor for associate professor Dr. Rumyana Zlatinova Yankova-Avramova.

Brief biographical data of the candidate (document No. 4): Associate Professor Rumyana Yankova was born on 08.12.1967 in the village of Kazichino, Burgas Region. In the period 1985-1990, he graduated from VHTI-Burgas, majoring in "Inorganic and Electrochemical Production". In the same educational institution, he also graduated with a degree in "Pedagogy". From 01.10.1990 she was chosen as an assistant at the University "Prof. Dr. Asen Zlatarov" Burgas. In 2010, he graduated

from the Foreign Language Specialization "English Language" at NBU. In 2015, he successfully completed a course in "Creative thinking, creative-innovation techniques" and at the same time acquires ONS "Doctor" in RU "Angel Kanchev". In 2016, he acquired the scientific title "Docent", scientific specialty and code: 01.05.02. As assistant ch. assistant and associate professor gives lectures and conducts exercises in the disciplines: Inorganic Chemistry (I, II and III hours), Applied Chemistry, General Chemistry, Structural Inorganic Chemistry, Methodology and Technique of Chemical Demonstrations in Inorganic Chemistry, Chemistry and Environmental Protection, Assessment of chemical factors in the environment and working environment, Methodology of scientific research activity, Chemistry of heterocyclic compounds, She led seminars on Stoichiometric calculations and on Chemistry and environmental protection.

Since 01.12.23 he has been a member of the scientific team of the National Center for Biomedical Photonics. From 17.12.2019-21.11.2023 he is the deputy dean of the Faculty of Medicine and head of the department "Physiology, Pathophysiology, Chemistry and Biochemistry", and from 22.11.2023 is Dean of the Faculty of Medicine. Possesses organizational skills and skills related to educational and scientific activities. He is fluent in written and spoken English, French and Russian languages.

Analysis of the materials provided to me for review:

The materials submitted to me for an opinion on a competition for the academic position of professor of associate professor Dr. Rumiana Yankova contain: **1.** Application for participation in the contest; **2.** Copy of the announcement in the state gazette; **3.** Certificate of fulfillment of the minimum national requirements under Art. 2b, para. 2 and 3 of ZRASRB; **4.** Creative resume; **5.** Photocopy of diplomas; **6.** Document to show work experience under paragraph 1 item 2; **7.** Documents

certifying educational and teaching activity; **8.** Author reference of the scientific contributions of the candidate's works; **9.** List of scientific publications and copies of those with which the candidate participates in the competition; **10.** Documents for participation in research projects; **11.** List of participation in scientific forums; **12.** Organization of scientific forums; **13.** List of students, graduates and doctoral students; **14.** Reference to the citations; **15.** Copies of publications in which the applicant's works are cited; **16.** Certificates of reviews of publications in Scopus; **17.** Declarations about the candidate's contribution to his scientific works.

I will do the analysis in the order of the numbering of the submitted documents.

In the reference/declaration for fulfillment of the minimum requirements - **document No. 3** - In group **A** - according to indicator **1** – **50p.**; in group **B** - according to indicator **4** -**205p.**; in group **D**- according to indicator **7** -**305p.**; in group **D** - according to indicator **11**, **150** citations were declared – **300p.**; in group **E** - a total of **226.8 p**: according to indicator **13** - **two** doctoral students - **75p**; according to indicator **14** – **2** participations in national projects – **20p**; according to indicator **15** – **2** participations in an international scientific or educational project – **20p**; according to indicator **20** - issued **5** independent teaching aids and **three** co-authored - **111.8p**. Total **1146.8p**.

In **document No. 5**, copies of diplomas certifying completed higher education, awarding of the ONS "doctor" and scientific title "associate professor" are presented.

Document No. 6 presents a certificate that the applicant has been working on a basic permanent employment contract at the Faculty of Medicine, Department of Physiology, Pathophysiology, Chemistry and Biochemistry from 10/1/1990 to the present without interruption. **Documents No. 7** certify the educational and teaching activities of the candidate. Associate Professor Yankova supervised 8 graduate

students and supervised two doctoral students who defended their doctoral theses (author's abstracts are presented), authored **8** textbooks (copies of annotations and title pages are presented), author and co-author of **25** study programs in disciplines, some of which she leads herself. A report on the educational provision of the current competition is presented, including **9** academic disciplines with lectures and exercises. In **documents No. 8**, an author reference for the scientific and applied contributions is presented. The total number of publications is indicated - **119**, of which **57** are in **Scopus** and **Web of Science**. **61** publications are referenced and indexed in world literature sources. The author also has **a monograph**. The Hirsch index is **hindex = 14**. The number of publications in journals with impact factor (**Web of Science**) and impact rank (**Scopus**) declared for the competition is **30 (8 with quartile Q1, 8 with quartile Q2 and 15 with quartile Q3)**. Annotation and main contributions are presented in the following thematic areas:

1. Preparation and characterization of new ionic liquids;
2. Analysis of surface phenomena occurring in heterogeneous ionic liquids;
3. Study the kinetics of thermal decomposition of ionic liquids;
4. Application of ionic liquids as effective catalysts for esterification;
5. Characterization of compounds for the purpose of their application;
6. Preparation and characterization of coordination compounds. Study of their reactivity. **Document No. 9** presents a list of the applicant's scientific publications and copies of those with which he participated in the competition. The **30** copies presented are of publications in the following journals:

1. Journal of Molecular Structure; 2. Journal of Molecular Liquids; 3. Spectrochimica Acta Part A; 4. Chemical Data Collections; 5. Thermochemica Acta; 6. Fuel; 7.

Journal of Chemical Research; **8**. Oxidation Communications; **9**. Journal of Chemical Technology and Metallurgy; **10**. Reaction Kinetics, Mechanisms and Catalysis. **Documents No. 10** present certificates and official notes certifying the candidate's participation in university, national and international projects. They show that Associate Professor Dr. Yankova was the head of **3 internal projects** (2016-2023), a member of scientific teams in **10 university projects** (from 2001 to the present) and a member of a scientific team in **one international project** with a university from the Kingdom of Saudi Arabia. Associate Professor Yankova was an expert on a scientific project - "**Modern-A**" (2016-2018) and a member of the scientific team of the National Center for **Biomedical Photonics**.

Documents No. 11, 12 and 13 present lists of the candidate's participation in scientific events, organization of scientific forums and leadership of students, graduates and doctoral students. From them it can be seen that she has **36** participations in scientific events, of which **6** abroad and **30** in the country, she was a member of the Organizing Committee of **9** Scientific Conferences. She supervised **20** students, **8** graduate students and **2** doctoral students. **Document No. 14** provides a reference to the citations of the candidate's publications. The author declared **150** citations to **18** of her publications. A total of **436** citations are listed in Skopus, **hindex = 14**. **Document No.15** presents **23** copies of publications in which the applicant's works are cited. **Document No. 16** presents copies of **4** certificates awarded for a total of **42** reviews: **3** in the Journal of Molecular Liquids - in the period: April 2024-May 2024; **27** in the Journal of Molecular Structure - in the period: May 2017-May 2024; **2** in the Journal of Physics and Chemistry of Solids - in the period: May 2020-June 2022; **10** in Molecules, Crystals, Materials, Polymers - in the period: 2019-2024.

In **document No. 17**, the applicant declares that all co-authors have an equal contribution to the development of the scientific publications (**30 items**) indicated in the presented list and declared under this competition.

From the reference on the Minimum requirements, art. 26, para. 2 and 3 of ZRASRB (**document No. 3**) it can be seen that Associate Professor Dr. Yankova completed **1146.8 points**, much more than the required number of points (**600 points**) to meet the minimum national requirements under PPZRASRB and the minimum requirements (**1000 points**) under PRAS in UAZ, Burgas for participation in the competition for a professor.

Conclusion: Based on the analysis of the materials provided to me for the preparation of an opinion regarding participation in a competition for the academic position of professor, I found that the candidate Dr. Romyana Zlatinova Yankova-Avramova. associate professor at the Department of Physiology, Pathophysiology, Chemistry and Biochemistry at the Faculty of Medicine of the University "Prof. Dr. Asen Zlatarov" Burgas is an established scientist with international recognition and meets all the criteria required by law and regulations. Bearing in mind what was written above, I am fully convinced and give a positive assessment. I allow myself to appeal to the respected members of the Scientific Jury to vote with their positive vote for awarding and acquiring the academic position of professor to associate professor Dr. Romyana Zlatinova Yankova-Avramova. as I will do.

28.08.2024

Prof. Dr. Radoslav Ivanov

Shumen