

## **STANDPOINT**

**by Assoc. Prof. Dr. Petinka Radeva Galcheva**

**Konstantin Preslavsky University of Shumen**

of the materials submitted for participation in the contest

for the academic position of 'Associate Professor'

**of Plovdiv University "Paisii Hilendarski"**

in the field of higher education 1. Pedagogical sciences

professional field 1.3. Pedagogy of teaching... (Methodology of teaching chemistry)

In the contest for 'associate professor', announced in the State Gazette, issue 40 of 14.05.2021 and on the website of Plovdiv University "Paisii Hilendarski" for the needs of the Department of General and Inorganic Chemistry with Methodology of Chemistry Education at the Faculty of Chemistry, as candidates participate Antoaneta Atanasova Angelacheva and Yordanka Petrova Stefanova from Faculty of Chemistry of Plovdiv University.

### **1. General presentation of the procedure and the candidate Antoaneta a Angelacheva**

With order № P33- 3163 from 13.07.2021. of the Rector of Plovdiv University "Paisii Hilendarski" (PU) I have been appointed a member of the scientific jury of a contest for the academic position of 'associate professor' in PU in the field of higher education 1. Pedagogical sciences, professional field 1.3. (Methodology of teaching chemistry), announced for the needs of the Department of General and Inorganic Chemistry with Methodology of Teaching Chemistry at the Faculty of Chemistry.

The following candidates have submitted documents for participation in the announced contest:

Chief Assistant Doctor Antoaneta Atanasova Angelacheva, - Plovdiv University Paisii Hilendarski and Chief Assistant Doctor Yodanka Petrova Stefanova, Plovdiv University Paisii Hilendarski.

The set of materials presented by Antoaneta Angelacheva is in accordance with the Regulations for development of the academic staff of PU, and includes all necessary documents.

The candidate Antoaneta Angelacheva has submitted a total of 34 scientific papers, of which 1 habilitation thesis, 1 monograph, 1 book, 3 textbooks, 7 articles in refereed and indexed publications, 21 articles in non-refereed scientific journals. 34 scientific papers are accepted for review, which are outside the dissertation and 3 textbooks and 4 research projects are taken into account in the final evaluation.

Chief Assistant Doctor Antoaneta Angelacheva is a graduate of Plovdiv University "Paisii Hilendarski", where she received a master's degree with a professional qualification Chemist and

specializations Inorganic, Teacher of Chemistry and Chemical Technology. The career development of Dr. A. Angelacheva from assistant to chief assistant is in the period 1996 - 2021, again at Plovdiv University. In 2007 she acquired the science degree "Doctor" in the scientific specialty Methodology of teaching chemistry. The presented facts from the professional CV of Angelacheva PhD are in full compliance with the Law for development of the academic staff the Republic of Bulgaria and the requirements of art. 65 of the Regulations for the development of the academic staff of Plovdiv University Paisii Hilendarski.

## **2. General characteristics of the candidate's activity**

From the submitted author's reference on the additional indicators under Art. 57a (2) of PPZRASRB and Art. 69 (2) of the Regulations for the development of the academic staff of Plovdiv University "Paisii Hilendarski" it is evident that the teaching activity of Dr. Angelacheva meets the established criteria:

- classroom activity (lectures and seminars) in Faculty of Chemistry of PU in academic disciplines, corresponding to the topic of the contest, provided with a sufficient number of hours;
- participation in the development of curricula and lecture courses for students with Bachelor's and Master's degrees;
- successful management of 9 graduates;
- independently and in co-authorship development of teaching aids for students.

Dr. A. Angelacheva participated in the contest for associate professor with a habilitation thesis and 33 scientific publications (outside the list of publications to the doctorate), of which one monograph, one book, three textbooks and 28 articles. Seven of the articles are in scientific journals that are included in the global system for reviewing, indexing and evaluation. 8 of the publications are in English.

In terms of quantitative criteria and type of scientific work, A. Angelacheva PhD meets the profile of the contest and many times exceeds the minimum national and faculty requirements for the academic position of "Associate Professor". The total number of points is 775.

The educational and professional status of Dr. Angelacheva, the perimeter of her professional interests and realization, as well as the wide pedagogical experience are reflected in the choice of research fields. In the author's reference the scientific researches and the scientific contributions are conditionally grouped in 3 scientific directions, according to the nature of their content - Educational chemical experiment; Environmental education in chemistry education in high school; Organization and control of the process of teaching chemistry. This thematic concentration makes a very good impression, which is a guarantee for completeness and comprehensiveness of the studied perimeter and protects the author from fragmentation and diversity in her research searches.

The content of the habilitation work summarizes the long-term research work of Dr. Angelacheva in the problem area "Educational chemical experiment". It presents the author's views on the nature, place, role and significance of the educational experiment in the teaching of chemistry in high school. These accents find their applied dimensions in the application of successful practices:

- a methodology has been developed for the preparation of teachers for the application of the teaching experiment in the teaching of chemistry and environmental protection;
- cognitive models for experimental study of chemical objects in the conditions of the higher school have been constructed, with a view to formation of natural science literacy of the students - future teachers of chemistry and environmental protection.

The book *Contemporary aspects of environmental education in chemistry education in high school* is a summary of the theoretical and practical experience of Dr. Angelacheva in substantiating and constructing a didactic model for the implementation of environmental education in the process of chemistry education. In this sense, it is a contribution to didactics, as a concrete attempt to solve the problem.

The monograph *Organizational Forms of Chemistry Education* combines both classical theses and author's views. It is practically applicable, as the theoretical formulations are supported by models for developing a lesson plan, for observation and analysis of a lesson, as well as with methodological developments of different types of lessons that can be used directly in pedagogical practice.

As a strength in the pedagogical work of Chief Assistant Doctor Angelacheva can be considered the textbooks, intended for students and teachers in order to support their activities.

The analysis of the scientific articles of Ch. Assistant Doctor Angelacheva gives me reason to say that they have the merits of academic publications. The reasons on which I formulate this statement are:

- depth of theoretical reasoning and very good methodological literacy;
- skills for transfer in the field of practice of constructed and defensible theoretical constructs.

The evaluation of the author's contribution to the publications takes into account the following circumstances:

- in the presented materials Angelacheva PhD is an independent author in 22 publications, leading author in 2 publications and second author in 4 publications, which is an indicator of her research competence;

- 16 citations of 13 of the presented publications were noticed. 5 of the citations, in the period 2003-2012, are in referenced and indexed Bulgarian editions, 5 of the citations (2012) are in the textbook *Active Training in Natural Sciences*, with authors lecturers from the Plovdiv

University and 5 this year in two books by a lecturer from Burgas University.

Ch. Assistant Doctor Angelacheva has participated with scientific reports in 9 national and 17 international conferences. Her research activity is complemented by her participation in the teams of one national and three university research projects.

### **3. Critical remarks and recommendations**

Without belittling the production presented by Ch. Assistant Doctor Angelacheva, I would like to make the following recommendation: to focus on participation in authoritative international conferences abroad and to intensify the publication in refereed and indexed publications at home and abroad, which will lead to recognition in research circles and higher citation rate.

### **CONCLUSION**

The analysis of the teaching, research and scientific activity, as well as the presented reference for compliance with the scientometric indicators for holding the academic position "Associate Professor" present Antoaneta Angelacheva as a good professional, purposeful and conscientious researcher with sustainable scientific interests. The results achieved by Dr. Angelacheva in the teaching and research activities fully comply with the specific requirements of the Faculty of Chemistry, adopted in connection with the Regulations of Plovdiv University for the application of the Law for development of the academic staff in the Republic of Bulgaria.

After getting acquainted with the materials and scientific works presented in the contest, analysis of their significance and contained in them scientific, scientific-applied and applied contributions, I find it reasonable to give my **positive** assessment and recommend to the Scientific Jury to prepare a report-proposal to the Faculty Council of the Faculty of Chemistry for the election of Antoaneta Atanasova Angelacheva to the academic position of 'Associate Professor' at the Plovdiv University "P. Hilendarski "by professional field 1.3. Pedagogy and teaching in... (Methodology of teaching chemistry)

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Shumen

The Standpoint was compiled by: .....

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