

STATEMENT

by Prof. Toni Kondeva Chehlarova

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of the materials submitted for participation in the competition

for the academic position of 'Associate Professor'

of Plovdiv University "Paisii Hilendarski"

by field of higher education 1. Pedagogical sciences

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

In the competition for 'associate professor', announced in the State Gazette, issue 40/14.05.2021 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, with Dr. Yordanka Stefanova as a candidate from the Department of General and Inorganic Chemistry with the Methodology of Chemistry Education at the Faculty of Chemistry of Plovdiv University "Paisii Hilendarski".

1. General presentation of the procedure and the candidate

By order № P33-3163/13.07.2021 of the Rector of Plovdiv University "Paisii Hilendarski" I was appointed as a member of the Scientific Jury,

The set of materials presented by Dr. Yordanka Stefanova is in accordance with the Regulations for development of the academic staff of PU.

Dr. Yordanka Stefanova graduated from Plovdiv University "Paisii Hilendarski", majoring in "Chemistry and Teacher of Chemistry and Physics" in 1987. She has worked as a teacher at the Primary School "Kiril and Methodii", Parvomai and since 1989 - at Plovdiv University "Paisii Hilendarski". She has defended a dissertation on "The explanation in chemistry education".

2. General characteristics of the candidate's activity

The teaching work (lectures, seminars, exercises) of Dr. Yordanka Stefanova was carried out mainly in disciplines that are in the direction of the competition. She has prepared or participated in the preparation of six curricula. She has developed new lecture courses in the disciplines "Modern educational technologies in education", "School legislation and educational documentation", "Methodology of education in specialized training in chemistry".

She has prepared resources for synchronous distance learning in these disciplines, including ongoing control and a semester exam in these disciplines.

Dr. Yordanka Stefanova was the head of the master's program "Teacher of Chemistry". She is the research supervisor of a doctoral student, expelled with the right to defense in 2021. She is the head of the center for chemical demonstrations at the Faculty of Physics of the University of Plovdiv. She has experience in working with teachers and as a participant in training seminars. She has participated in conducting competitions between students from high school.

Dr. Yordanka Stefanova has extensive teaching and organizational experience.

Two monographs are presented, one of which is a book based on a protected dissertation for the award of educational and scientific degree "Doctor", six publications in scientific journals, referenced and indexed in world-famous databases with scientific information and 14 publications in unrefereed journals with scientific review or published in edited collective volumes.

In the Annotation of the materials for the competition Dr. Yordanka Stefanova has grouped most of her publications and has presented her scientific contributions in four problem areas of the Methodology of teaching chemistry: 1. Formation and development of scientific literacy (6 publications, one of them is independent); 2. Application of a constructivist approach in the teaching of chemistry (4 independent publications and one in co-authorship); 3. Formation and development of key competencies (3 scientific publications in co-authorship, in 2 of them Dr. Yordanka Stefanova is the first author); 4. The explanation in the teaching of chemistry (2 publications in which Dr. Yordanka Stefanova is the first author). Outside these groups are three publications, the monograph presented as a habilitation thesis, the book created on the basis of a protected habilitation thesis, which are related to the presented problem areas.

13 notable citations of 6 articles are presented, of which Dr. Yordanka Stefanova is the author or co-author. Two of the citations are in SCOPUS/WEB of SCIENCE.

Dr. Yordanka Stefanova has participated in research projects.

CONCLUSION

The documents and materials submitted by Dr. Yordanka Stefanova meet the requirements of the Law for the Development of Academic Staff in the Republic of Bulgaria (LDASRB), the Regulations for implementation of the LDASRB and the relevant Regulations of Paisii Hilendarski University of Plovdiv.

The candidate in the competition has submitted a sufficient number of scientific papers published after the materials used in the defense of educational and scientific degree "Doctor". In the works of the candidate there are original scientific and applied contributions. Theoretical developments have practical applicability, as some of them are directly oriented to the educational work. The scientific and teaching qualification of Dr. Yordanka Stefanova is unquestionable.

The results achieved by Dr. Yordanka Stefanova in the teaching and research activities correspond to the specific requirements of the Faculty of Chemistry, adopted in connection with the Regulations of the University of Plovdiv for the application of LDASRB.

After getting acquainted with the materials and scientific papers presented in the competition, 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 Dr. Yordanka Stefanova to the academic position of 'Associate Professor' at the University of Plovdiv "P. Hilendarski" by professional field 1.3. Pedagogy of teaching in ... (Methodology of teaching chemistry).

08. 09. 2021.

Prepared the statement:

Prof. Toni Chehlarova