

REVIEW

to occupy the academic position:

"Professor"	X
"Associate Professor"	
	one of the academic positions indicated shall be marked with the sign "X"

Candidates to occupy the position:

1	Assoc. Prof.	Dr.	Stela	Ivanova	Georgieva-Kiskinova	UCTM -Sofia
№	academic position	scientific degree	name	middle name	last name	workplace

Scientific area:

4.2	Chemical Sciences
code	name

Professional area:

	Analytical chemistry
code	name

Scientific specialty:

Analytical chemistry

The competition has been announced:

68	13.08.2024	Analytical chemistry	
in SG issue	date	for the needs of the Department	Faculty

The review was written by:

Prof.	Dr., Dsc.	Vasil	Dragomirov	Simeonov	Emeritus
academic position	scientific degree	name	middle name	last name	workplace

1. Review for the candidate:

Assoc. Prof.	Dr.	Stela	Ivanova	Georgieva-Kiskinova
academic position	scientific degree	name	middle name	last name

1.1. Completion of the provided documents:

A) The competition documents are in full compliance with the Regulations	3 points	X
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B) The documents are complete but do not fully comply with the requirements of the Regulations	2 points	
C) The documents are not completed in accordance with the requirements of the Regulations	0 points	
		one of the answers given is marked with the sign "X"

Missing documents and violated requirements must be described if response C is marked.

No missing documents are found and all set is according to the Application manual of the Law.

1.2. Meeting the minimum requirements under the Regulations:

A) The candidate meets the minimum requirements	20 points	X
B) The candidate doesn't meet the minimum requirements	0 points	
		one of the answers given is marked with the sign "X"

It must be filled in if answer B is marked. The publication activity of the candidate is analyzed. The response of the results achieved (quoted) is analyzed.

The candidate is coauthor of over 45 scientific publications with over 60 participations at national and international science meetings, participation of large number scientific projects, and leadership of PhD candidates. Over 300 citations are registered during her overall activity. Thus, the requirements of the Application manual are satisfied.

1.3. Relevance of scientific and / or applied research:

A) The research is relevant. Part of the research is pioneering (no results are known on the topic by other authors)	7 points	
B) Research is relevant. Results from other authors are known for each of the topics and / or applications studied.	5 points	X
C) Most of the research is relevant, but also some results are presented that have no scientific and / or applied value	3 points	
D) The smaller part of the research is relevant	2 points	
E) Research is not relevant	0 points	
		one of the answers given is marked with the sign "X"

The evaluation of the relevance of the research must be substantiated.

Research is relevant, the objects of research are new but there are other investigations in the field carried out by other investigators.

1.4. Knowledge of the problems subject of research:

A) The candidate knows in detail the achievements of other authors on the researched topics and/or applications	6 points	X
B) The candidate is partially familiar with the achieved results on the researched topics and / or applications	4 points	
C) The candidate has no prior knowledge of the status of the researched problems	0 points	
		one of the answers given is marked with the sign "X"

The evaluation must be substantiated if answer C is marked.

The candidate is well informed about the achievements of other authors before realization of her own studies.

1.5. Type of research:

A) Theoretical	4 points	
B) Applied	4 points	X
C) Theoretical with application elements	4 points	
D) It does not correspond to the level specified in the Act for the Development of the Academic Staff in the Republic of Bulgaria and the Regulations	0 points	
		one of the answers given is marked with the sign "X"

The level of research must be substantiated if answer D is marked.

According to the reviewer's opinion the investigations of the candidate are practically oriented according with the level determined by the Application manual of the Law.

1.6. Objectives of the research:

A) Realistic and of scientific and / or applied interest	8 points	X
B) Realistic, but not of scientific and / or applied interest	4 points	

C) Unattainable (unrealistic)	0 points	
		one of the answers given is marked with the sign "X"

Objectives must be specified. The type of the set objectives must be justified.

The aim is to develop and optimize new analytical methods in sensorics as well as research of new compounds with therapy effect.

1.7. Methods of research:

A) Adequate to research and set scientific objectives and /or applications	8 points	X
B) Partially appropriate, enabling part of the scientific objectives and / or applications to be achieved	4 points	
C) Inappropriate methods	0 points	
		one of the answers given is marked with the sign "X"

Methods must be specified. The type of methods used is justified.

The electrochemical and spectral methods used in the research are up-to-date and effective.

1.8. Candidate research contributions:

A) With lasting scientific and / or applied response, they form the basis for new research and applications	20 points	X
B) They are of significant scientific and / or applied interest, complete and / or summarize previous research	16 points	
C) They are of scientific and / or applied interest	12 points	
D) Lack of significant contributions	8 points	
E) Lack of contributions	0 points	
		one of the answers given is marked with the sign "X"

Contributions must be specified. The type of results achieved must be justified.

The basic scientific contributions of the publications in consideration could be summarized as follows:

- original results about characterization of totally 56 biologically active new compounds with efficient therapeutic activity and various pharmacological effects (peptide hemorphine and hidantoin derivates) by using a wide spectrum of analytical techniques;
- development and optimization of methods for detection of different analytes (basically metal ions and other metal-containing forms) for assessment and control of chemicals with trade usage and with environmental emissions; an important contribution is the study of different compounds as sensor components for electrochemical or spectral detection of trace amounts of metals in different environmental objects;
- development of original analytical method for speciation analysis of arsenic in polluted environmental phases.

1.9. Participation of the candidate in the achievement of the presented results:

A) The candidate has at least an equal participation in the submitted papers	8 points	X
B) The candidate has at least an equal participation in most of the submitted papers	7 points	
C) The candidate has a secondary participation in most of the submitted papers	4 points	
D) The candidate participation is unnoticeable	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the items C or D is marked.

I have no critical comments or notes to the materials presented.

The candidate has equal participation in the studies included in the materials.

1.10. Pedagogical activity:

A) The candidate has effective and sufficient pedagogical activity at the university. The textbooks issued are modern and useful (they meet the requirements of the Regulations). The work with undergraduate and doctoral students is at a high professional level.	8 points	X
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B) The candidate has sufficient pedagogical activity at the university. The textbooks issued satisfy the requirements of the Regulations.	6 points	
C) The pedagogical activity and / or textbooks issued are insufficient (do not meet the requirements of the Regulations)	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the items B or C is marked.

The candidate has significant pedagogical activity and the published textbooks are modern and useful. The data about tutorship with students and PhD candidates are representative enough for high professional level of pedagogical activity in this field.

1.11. Critical notes:

A) Lack of critical notes	8 points	X
B) Critical notes of a technical nature	7 points	
C) Critical notes that would partially improve the results achieved in a small part of the research	5 points	
D) Critical notes that would partially improve the results achieved in most of the research	3 points	
E) Significant critical notes	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the answers C, D or E is marked.

I have no critical notes or comments to the materials presented.

1.12. Conclusion

A) The evaluation of the candidate's activity is POSITIVE	This evaluation is assigned to a total number of at least 65 points	X
B) The evaluation of the candidate's activity is NEGATIVE	This evaluation is assigned to a total number below 65 points	
		one of the answers given is marked with the sign "X"

To be filled in if requested by the reviewer

My assessment of the overall activity (scientific, pedagogical, and administrative) of the candidate is completely positive.

27/11/2024	The review was written by: Prof. Dr. Vasil Simeonov, DSc.	
date		signature