Appendix 12d

REPORT

to occupy the academic position:

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

Candidates to occupy the position:

1	**Chief Assistant**	**professor**	**Stoyko**	**Aleksandrov**	**Petrin**	**UCTM**
№	academic position	scientific degree	name	middle name	last name	workplace

Scientific area:

5	**Engineering sciences**
code	name

Professional area:

5.11	**Biotechnology**
code	name

Scientific specialty:

Technology of biologically active substances

The competition has been announced:

71	**07.08.2026**	**Biotechnology**	**Faculty of Chemical and Systems Engineering**
in SG issue	date	for the needs of the Department	Faculty

The report was written by:

Assos.	**professor**	**Spaska**	**Atanasova**	**Yaneva**	**UCTM**
academic position	scientific degree	name	middle name	last name	workplace

1. Report for the candidate:

Chief Assistant	**professor**	**Stoyko**	**Aleksandrov**	**Petrin**
academic position	scientific degree	name	middle name	last name

1.1. 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.

1.2. 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)	8 points	
B) Research is relevant. Results from other authors are known for each of the topics and / or applications studied.	6 points	**X**
C) Most of the research is relevant, but also some results are presented that have no scientific and / or applied value	4 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.
The research is current. The focus on the utilization of waste biomass is particularly interesting, as is the research on fast-growing tree species. All research presented in the scientific publications is supported by a rich set of analytical and instrumental analysis techniques.

1.3. 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 research activity of Chief Assistant Professor Stoyko Petrin is focused primarily on the kinetics of enzymatic processes, pretreatment and bioconversion of various lignocellulosic biomasses, production of high-value-added cellulose products and fermentable sugars, production of biocomposites, valorization of plant residues and natural bioactive compounds, as well as the synthesis and characterization of bioactive peptides. The research goals are realistic and have both a scientific and a strongly applied nature.

1.4. 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 scientific and applied scientific contributions can be summarized as follows: 1.Physicochemical and kinetic regularities of the enzymatic hydrolysis of different types of lignocellulosic biomass. 2.Pretreatment and bioconversion of lignocellulosic biomass into fermentable sugars. 3.Acid hydrolysis and modification of cellulose for the production of value-added products. 4.Production of dry-process medium- and high-density wood-fiber boards (MDF and HDF), recycling and utilization of secondary fibrous raw materials, and use of additives to improve board properties. 5.Production, modification, and characterization of natural and synthetic biologically active

compounds. 6.Spectroscopic approaches for monitoring and characterizing chemical transformations and technological studies in chemical pulp production.

1.5. 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	
B) The candidate has at least an equal participation in most of the submitted papers	7 points	**X**
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. ----------

1.6 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**
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.

1.7. 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.

1.8. Conclusion

A) The evaluation of the candidate's activity is **POSITIVE**	This evaluation is assigned to a total number of at least 50 points	**77 points**
B) The evaluation of the candidate's activity is **NEGATIVE**	This evaluation is assigned to a total number below 50 points	
		one of the answers given is marked with the sign "X"

To be filled in if requested by the member of the scientific jury

14.11.2026	The report was written by: Assos. Prof. PhD Spaska Yaneva	
date		signature