

REVIEW

Prof. Nikolay Georgiev Miloshev

On a procedure for academic position "Professor" in the field 4.4 Earth Sciences; scientific specialty "Physical Geography, landscape ecology and GIS", announced in State Official Journal, issue. 21 / 13.03.2020

Candidate : Assoc. Prof. Stoyan Tsvetanov Nedkov

The candidate in the announced procedure - Assoc. Prof. Stoyan Nedkov is a recognized researcher with international prestige in the field of physical geography and especially in landscape ecology and the application of Geographic Information Systems in the environmental assessment. He is a long-term employee at the Institute of Geography and then at the NIGGG of the Bulgarian Academy of Sciences and has gone through all stages of career development from a full-time PhD student in 1999 to the current Associate Professor position. He also has experience as a lecturer at Sofia University and Veliko Tarnovo University. He was a supervisor of nine successful graduates at Sofia University and three PhD students at NIGGG - BAS.

The candidate applied in the procedure with 55 publications after the procedure for associate professor in 2009 as 20 fall into category B4 of the minimum national requirements, 5 in category G7 and 30 in category G8. The sum of points significantly exceeds the minimum requirements in each individual category. The articles in scientific journals are 28, as 7 are in publications with high impact factor, eight are chapters from monographs and 19 publications are in collections of proceedings from scientific conferences. The candidate's achievements have been cited 558 times in a number of publications, mostly from abroad. This summarily show serious publication activity and international recognition of the candidate's scientific production.

The 10 scientific contributions formulated in connection with the procedure were correctly distributed in three thematic areas:

- Development and improvement of the methodology of landscape research and the application of the concept of ecosystem services.
- Application of geoinformation technologies for sustainable environmental management;
- Physical-geography studies of the natural hazards, ecological and paleo-geographical conditions of high mountain areas

In the first thematic area, four contributions are presented, which summarize the most significant achievements of the applicant in the development of specific aspects of the

methodology for mapping and assessment of ecosystem services and in particular participation as co-author in the development of the matrix approach. In the second area, three contributions are presented, with special attention to the methodology for mapping and evaluation of the flood regulation service through GIS-based models and the geospatial approach for the services provided by urban ecosystems. The third area combines the candidate's contributions in various aspects of physical-geography research and in particular hazardous natural phenomena with an emphasis on flood risk modeling.

In addition, it should be noted the candidate's participation in 14 projects, in 5 of which he was the leader or coordinator of the team from the Bulgarian side.

Taking into account all these facts, I am sure that the candidate meets all the requirements of the law and the regulations for its implementation to hold the academic position of "Professor". Therefore, I strongly recommend the scientific council to award Dr. Stoyan Tsvetanov Nedkov the academic position "Professor" at NIGGG-BAS.

Sofia, 24.09.2020

Nikolay Miloshev