

ЗПАЧРБ-Бх №СЧК-1290 от 12 юни 2018г.



## **Evaluation Report for Pavel Pavlov**

### **For the appointment as academic position "professor"**

#### **Materials**

The report based on the submitted requirements and criteria for the report writing. The content of the evaluation report based on the "scientific CV" and "publication status" of Pavel Pavlov from May 2018.

#### **General information about the qualification of the candidate**

Pavel Pavlov was born on July 5<sup>th</sup>, 1968 in Pernik, Bulgaria.

Actual he is Vice-rector for research at University of Mining and Geology "Ivan Rilski" in Sofia, Bulgaria and since 2009 he is docent there at specialisation "Mining Construction".

Pavel Pavlov starts his professional education in 1984 at Technical School of mining engineering in Pernik. In 1987 he was there graduated in "Mining Construction and Extraction of Minerals" with the mark "excellent".

From 1989 to 1994 he studied "Mining Construction" at University of Mining and Geology in Sofia and finished with the diploma "very good".

Parallel, from 1991 to 1994 Pavel Pavlov obtained a graduation in "Engineering Pedagogics" with final grade "excellent".

With a rector-scholarship for excellent study results Pavel Pavlov continued from 1994 to 1995 education at University of Mining and Geology in Sofia in "Massif Rheology" and start 1995 his professional career as assistant at chair "Underground Mining" with specialisation in "Mining Constructions". In 1998 he became the status of a senior assistant and 2001 as professional assistant.

2006 Pavel Pavlov obtained the PhD degree in the specialisation "Mining Construction" with the topic: Rational constructions of basic and top isolation systems for mining and industrial wastes.

From 2001 to 2003 the candidate realized research visits at Montan-University Leoben, Austria and 2004 at Technische Universität Bergakademie Freiberg, Germany.

Pavel Pavlov has excellent foreign language skills in German, Russian, Serb-Croatian and good language skills in English.

The candidate is member of national and international professional and scientific organisations, like: technical association of mining, geology and metallurgy. He is a permanent member of the commission of ecology in Bulgarian chamber of mines, member of the expert committee for science, technology and innovations in Sofia city, member of the regional development committee of Bulgaria, member of Metro expert committee, and member of the international organisations of Rock Mechanics and Mining Professors.

The mentioned general skills, engagement and networks qualifies Pavel Pavlov for the academic position "professor".

#### **Teaching expertise**

Pavel Pavlov has rich teaching experiences since 1995. He prepared and held lectures and exercises in the following six courses: mining construction, mining technology, tunnelling, construction of underground buildings, waste disposal and reclamation, underground construction in urban areas.

The candidate was invited lecturer at Montan-University Leoben, Austria, and at Technische Universität Bergakademie Freiberg, Germany.

The candidate leaded from 2014 to 2016 four educational projects for industrial partners in software products and participated in since 2011 in three other projects.

Pavel Pavlov supervised three PhD thesis's and numerous diploma thesis's at University Ivan Rilski. Additional he carried out practical education and diploma co-supervision of German students in Bulgaria.

The candidate was member of five juries for academic positions and scientific titles.

With this teaching expertise Pavel Pavlov fulfil the requirements for the Position "professor".

### **Teaching material**

Pavel Pavlov worked active in preparation of teaching material, so the guideline for "Technological schemes for development of horizontal underground excavations". He is author and co-author of five teaching books: "Shaft design", "Land disturbance and reclamation of industrial sites", "Reclamation of disturbed by mining land", "Technological solutions for reclamation of disturbed land and soil", and "Terminology related to plastics".

Furthermore the candidate proofed books of other authors.

With the teaching material the candidate fulfil the requirements for the position "professor".

### **Scientific expertise**

From 2009 to 2014 the candidate acquired and realized three remarkable research projects from Bulgarian research fund in construction analysis, and investigation of construction ground at metro in Sofia.

Additional Pavel Pavlov leaded since 2015 six research projects with industry in topics like: soil mechanics, waste disposal, material science, reclamation. Furthermore he was involved in seven other R&D projects.

The candidate realised in six expertise's for projects in mining engineering.

The scientific activities fulfil the requirements for the academic position "professor".

### **Publications/ Conferences/ Patents**

Pavel Pavlov is author of 84 scientific publications in the field of mining, underground aod waste disposal construction. 34 publications were published abroad in Austria, Germany, Romania, Russia, and Turkey. Several in cited journals, like in Scopus.

Pavel Pavlov prepared the monography "Mining and underground construction".

The candidate is main redactor of scientific conference proceedings at University Ivan Rilski. He is redaction member of the Bulgarian journal "Mining Engineering and Geology", member of the editorial board of the journal "Geotechnical and Geological Engineering" (Springer), and of the international journal "Revista Minelor Mining Review", Romania.

Pavel Pavlov active participated with scientific presentations in national and international conferences, and published proceedings of international conferences. He was member of seven organising and twelve scientific committees of international conferences and forums.

The candidate is author of four patents in the topics: composite materials for underground construction and waste disposal, waste water treatment from hydro carbonates, composite material for water sealing, and composite materials for top cover of dumps and foundations.

The candidate fulfil the requirements.

**Personal remarks**

I know Pavel Pavlov personally from conferences and university cooperation. He is a driving force in development of innovations in teaching and research. He is talent in networking and international cooperation. His behaviour is correct, friendly and professional. For his achievements he was awarded as "Honour Miner" of Technische Universität Bergakademie Freiberg.

In summary, Pavel Pavlov fulfil the requirements for the academic status "professor" without limitations. I strongly support the application. He will enrich the Bulgarian and international community of professors. Bulgaria can be proud about his outstanding personality.

Freiberg, June 10<sup>th</sup>, 2018

A handwritten signature in black ink, appearing to read 'Carsten Drebenstedt', with a stylized, cursive script.

Carsten Drebenstedt  
Professor, Chair Surface Mining  
Technische Universität Bergakademie Freiberg