



VARNA FREE UNIVERSITY
CHERNORIZETS HRABAR



FACULTY OF ARCHITECTURE
CONSTRUCTION OF BUILDINGS AND FACILITIES DEPARTMENT



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Reception days: Monday, Wednesday – 10.00 – 12.00

EDUCATION

- 2000 - 2004 – *PhD* – Technical University of Varna, Scientific Specialty *02.01.02 Materials Science and Technology of Mechanical Materials*
- 1998 - 2000 – *professional qualification "Teacher"* -
- 1994 - 1999 – *MSc degree* - Technical University of Varna, Specialty *Technology of Metals and Metal Working Equipment*

EXPERIENCE

- July 2011 – to present – *Assoc. Professor* – VFU "Chernorizets Hrabar", "Faculty of Architecture, Department of Civil Engineering, Scientific Specialty *02.15.05 Building Materials, Products and Technologies of their Production*
- October 2009 – to present – *Academic Scientific Secretary* of the Faculty of Architecture, Member of the Academic Council, the Commission of Education and the Commission or Research at VFU "Chernorizets Hrabar"
- 2009 – 2011 – *Senior Assistant* – VFU "Chernorizets Hrabar", "Faculty of Architecture, Department of Civil Engineering, Scientific Specialty *02.15.05 Building Materials, Products and Technologies of their Production*
- August 2008 – to present – Member of the Faculty Council of the Faculty of Architecture
- 2006 – 2009 – *Assistant* – VFU "Chernorizets Hrabar", "Faculty of Architecture, Department of Civil Engineering, Scientific Specialty *02.15.05 Building Materials, Products and Technologies of their Production*
- 2003 - 2006 – *Engineer – Researcher* – Certificated Laboratory for Structural Analysis, Technical University of Varna
- March 2011 – to present – *Member of the Expert working groups BIS/EWG 9 „Testing of Metals” and BIS/TC 30 „Welding of Materials”* at Bulgarian Institute of Standardization

RESEARCH

- Structural Formation and Phase Stability of Metals and Non-metals;

- New Materials and Technologies in the field of Civil Engineering;
- Advanced Methods for Non-destructive Testing of Materials;
- Special Metallography and Electron Microscopy

PARTICIPATION IN PROJECTS:

- OP „Development of the Competitiveness of the Bulgarian Economy“ BG161PO003-1.2.02-0039 “Creation of a New Office for Technology Transfer for Energy Efficient Materials and Technologies in VFU “Chernorizets Hrabar”” (December 2012 – December 2014, Project Coordinator)
- OP „Human Resources Development“ BG051PO001-3.1.09-0002 “Establishment and Approbation of a System for Career Development of Teachers in the VFU “Chernorizets Hrabar””(April 2013 – July 2014 г., Expert in the Project)
- HR Excellence in Research – project of the EC “Research and Innovation” (2011 to the present)
- MAUNIMO, EUA (2012 г., Participant)
- NATO Project SfP 972395: "Development of Powder Metallurgy Manganese Steels for Structural Components" (1999-2003, Coordinator: UK Bradford)

CERTIFICATES, SPECIALIZATION, MOBILITIES

- Certificate **English for Academic Purposes** (“Lecture Ready – Strategies for Academic Listening, Note-taking, and Discussion“ System) given by the Foreign Language Department at VFU “Chernorizets Hrabar” (2011 г.)
- Certificate **English B1.2 Level** given by the Foreign Language Department at VFU “Chernorizets Hrabar” (2010 г.)
- Certificate **English Pre-intermediate Level** given by the British Council (2001 г.)
- Certificate „**The Information Technologies – A Catalyst of the Change in Education and Research**“ given by VFU “Chernorizets Hrabar” (2011)
- September 2002 - January 2003 – Ecole Polytechnique de l’Universite de Nantes, France, Research Laboratory “*Genie de Materiaux*”, Specialization in Materials Science
- May 2010 – Teaching Mobility at the Technical University of Ostrava, Faculty of Civil Engineering, Czech Republic
- May 2011 – Teaching Mobility at the Technical University of Zilina, Faculty of Civil Engineering, Slovak Republic

NUMBER OF PUBLICATIONS / REPORTS : 9 / 2

NUMBER OF CITATIONS : 2.

PUBLICATIONS /2009-2013/:

- Слипец Б., Р. Петкова-Слипец – *Микроструктурни изменения в повърхостния слой на стомана 45 след лазерно легиране с WC*, “Машиностроителна техника и технологии”, 1’2009, с.47-50
- Петкова-Слипец Р. – *Изследване на микроструктурата, формираща се след заваряване на чист титан*, “Машиностроителна техника и технологии”, 1’2009, с. 51-54
- Петкова-Слипец Р., Р. Русев – *Експериментално изследване на фазовите трансформации в стомана 12X1MФ в условия на дифузия на азот*, J. of the Technical University Sofia, branch Plovdiv, “Fundamental Sciences and Applications”, Vol. 14, 2009, с.191-196
- Петкова-Слипец Р. – *Високотемпературна крехкост на Al-Mg сплави, съдържащи Na*, “Машиностроителна техника и технологии”, 2’2009, с.56-60
- Петкова-Слипец Р. – *Дисперсно армиран бетон*, Алманах на ВСУ, 2010, с.82-89
- Петкова-Слипец Р. – *Поведение на бетоните, армирани със стоманени фибри, при*

статични и динамични външни натоварвания, Алманах на ВСУ, 2010, с.74-81

• Ганев Р., Пл. Балева-Йосифова, **Р. Петкова-Слипец** – *Влияние на цикличното натоварване върху формирането на пукнатини в стоманобетонни елементи*, Алманах на ВСУ, 2010, с.168-173

• Слипец Б., **Р. Петкова-Слипец** – *Технологични особености при ремонтно-възстановителните работи на резервоар за съхранение на течности*, Алманах на ВСУ, 2011, с.19-23

• Ganev R., **R. Petkova**, Pl. Baleva – *Influence of cyclic loading on the formation of cracks in reinforced concrete elements*, Proceedings of the 5th International Conference on Dynamics of Civil Engineering and Transport Structures and Wind Engineering, 30 май-2 юни, 2011, с.151-154

CONFERENCE PRESENTATIONS /2009-2013/:

• **Petkova R.** – *Advanced Materials for Architectural Elements*, International Conference “People and Space in Perspective”, Ostrava, Czech Republic, 14-16 April 2010

• **Петкова-Слипец Р.** - *Results of a complex research to establish the reasons for destruction of the plates from an apron feeder*, VI International Scientific Conference „Architecture, Civil Engineering – Modernity“, Varna, Bulgaria, 30 May – 1 June 2013

MONOGRAPHS, TEXTBOOKS, BOOKS CO-AUTHORED:

• „Building Materials” – electronic book, 2009, <https://eschool.vfu.bg/>

• „Renovation of Buildings and Facilities” – electronic book, 2009, <https://eschool.vfu.bg/>