

Curriculum vitae

Name	GERGANA GEORGIEVA MERACHEVA
Address (work)	1 „Prof. Boyan Kamenov“ Str., 1700 Sofia, Bulgaria University of Mining and Geology „St. Ivan Rilski“ Faculty of Geology and Exploration Department of Geology and Exploration of Mineral Resources
Mobile (optional)	(+359) 887 197 843
E-mail	g.meracheva@gmail.com ; gergana.meracheva@mgu.bg
Date of birth, Place	29 th July 1980., Sofia
Position (at the moment)	Chief Assistant Professor
Date	02. 2020 – until now
Occupation or position held	Chief Assistant Professor
Name and address of employer	University of Mining and Geology „St. Ivan Rilski“
Main activities and responsibilities	Subjects – „Geology and Exploration of Oil and Gas Fields“; „Petroleum Geology“; „Geology and Geochemistry of Fossil Fuels“; „Basin Analysis“; „Organic Geochemistry“; „Petroleum Sedimentary Basins“; „Computer Technology of Petroleum Geology “
Date	11. 2015 – 02.2020
Occupation or position held	Assistant Professor
Name and address of employer	University of Mining and Geology „St. Ivan Rilski“
Main activities and responsibilities	Subjects – „Geology and Exploration of Oil and Gas Fields“; „Geology and Geochemistry of Fossil Fuels“; „Basin Analysis“; „Petroleum Sedimentary Basins“
Date	03. 2012 -03. 2015
Occupation or position held	Senior Geologist
Name and address of employer	„Overgas Inc.“ Ltd, 5 Philip Kutev Str., 1407 Sofia
Main activities and responsibilities	Interpretation and analysis of geological, geophysical and geochemical data in E&P Projects; Petroleum system analysis and modelling; Geological and tectonic modelling
Date	12. 2007 – 03. 2012
Occupation or position held	Geologist/Expert
Name and address of employer	„Overgas Inc.“ Ltd, 5 Philip Kutev Str., 1407 Sofia
Main activities and responsibilities	Technical and economical assessments for oil and gas exploration; Interpretation and analysis of geological and geophysical data; Petroleum system analysis and modelling
Date	09.2006 – 12.2007
Occupation or position held	Junior Geologist
Name and address of employer	„Overgas Inc.“ Ltd, 5 Philip Kutev Str., 1407 Sofia
Main activities and responsibilities	Participate in preparation of Reports for oil and gas potential of Bulgarian onshore and offshore
Date	03.2004 – 08.2006
Occupation or position held	Expert
Name and address of employer	„Stroyinject“ Ltd. (Euroalliance Ltd.)
Main activities and responsibilities	Preparation of Tender documents and price offers; Accepting of execution of civil works; Control of observance the implementation of the construction project in accordance with the geological conditions; Participation in tender price offer calculations

Education and Training

Date	03.2012 – 03.2017
Title of qualification awarded	PhD, vocational field 5.8. „Exploration, production and processing of mineral resources“, doctoral programme „Geology and exploration of mineral resources“
Name of organisation	University of Mining and Geology „St. Ivan Rilski“
Date	10.2005 - 06.2007
Title of qualification awarded	Master of Petroleum Geology
Name of organisation	University of Mining and Geology „St. Ivan Rilski“
Date	10.1999 - 01.2004
Title of qualification awarded	Bachelor/ Engineer-Exploration geologist
Name of organisation	University of Mining and Geology „St. Ivan Rilski“

Foreign languages English, Russian, German

Self-assessment
European level (*)

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Independent oral presentation			
English	C2 Proficient level	C2 Proficient level	C1 Advanced level	C1 Advanced level	C1 Advanced level	C2 Proficient level			
Russian	C1 Advanced level	C2 Proficient level	B2 Business level	B2 Business level	B2 Business level	B1 Business preliminary level			
German	A1 Basic preliminary	A2 Business basic	A1 Basic preliminary	A1 Basic preliminary	A1 Basic preliminary	A2 Business basic			

(*) [Common European Framework of Reference for Languages](#)

Professional information and application

Professional and Research Interest Fields (Key words)	Petroleum Geology and Geophysics; Exploration and Production of Oil and Gas; Petroleum Geochemistry; Geological 2D/3D modelling and simulation; Petroleum system analysis and modelling; Basin modelling; Resources and reserves assessment and estimation; Risk assessment modelling; Unconventional energy resources
Patent and Invention	

Membership of professional and trade organisations Bulgarian geological society, American association of petroleum geologists, European association of geophysical engineers

Publications **Appendix 1**

Projects **Appendix 2**

Participation in scientific sessions, conferences and congresses **Appendix 3**

Specialisation abroad Modern GIS technology in oil and gas branch (method of collecting, processing and analysing spatial information), Russian University “I.M. Gubkin” Moscow, Russia, 2008
Complex Carbonate Reservoirs: The Role of Facies, Fracturing and Tectonic, Field Trip Napoli-Rome, Italy, 2009
Petrel – Introduction course, Schlumberger Logelco INC, 2011

Други професионални компетенции **MS Office, Autocad, MapInfo, Petrel, Neura Suite, PetroMod, Surfer, Kingdom**

PUBLICATIONS

1. Toncheva, M., **G. Palakarcheva**. 2008. Lithofacies and reservoir features in the Triassic complex between the rivers Iskar and Osam in the South Moesian platform margin. *Annual of University of Mining and Geology*, vol.51, Part I. Geology and Geophysics, 191–194
2. **Palakarcheva, G.**, M. Stefanova. 2013. Source rock hydrocarbon potential of the Bulgarian part of Thrace basin. *Annual of University of Mining and Geology*, vol. 56, part I, Geology and Geophysics, 86–92
3. **Meracheva, G.**, M. Stefanova, S. Marinov and E. Zaneva-Dobranova. 2014. Assessment of oil/gas generation potential of the Bulgarian part of Thrace basin by means of organic geochemistry. *Bul. Shk. Gjeol.* 2/2014, p. 216
4. Zaneva-Dobranova, E., **G. Meracheva**. 2014. Hydrocarbon potential formations from Bulgarian part of Thrace basin. *Bul. Shk. Gjeol.* 2/2014, p. 454–457
5. Zaneva-Dobranova, E., **G. Meracheva**. 2014. Hydrocarbon reservoir systems of the east part of the South Sakar depression. *Annual of UMG*, v. 57, Part I, Geology and Geophysics, 65–70
6. **Meracheva, G.**, M. Stefanova, S. Marinov and E. Zaneva-Dobranova. 2017. Geochemical appraisal of hydrocarbon generative potential of Bulgarian part from the Thrace basin: I. Linear biomarkers. *Bulgarian chemical communications* 49, Special Edition B: 151–158 (**SCOPUS**)
7. **Meracheva, G.**, M. Stefanova, S. Marinov and E. Zaneva-Dobranova. 2017. Geochemical appraisal of hydrocarbon generative potential of Bulgarian part from the Thrace basin: II. Cyclic biomarkers. *Bulgarian chemical communications* 49, Special Edition B: 159–166 (**SCOPUS**)
8. **Meracheva, G.**, E. Zaneva-Dobranova. 2017. Depositional environment of source rocks in Paleogene depressions of Eastern Rhodope. V International scientific and technical conference “Geology and hydrocarbon potential of the Balkan-Black sea region: 112–121
9. **Meracheva, G.**, E. Zaneva-Dobranova. 2018. 3D structural model of Tertiary sediments in NW part of Thrace basin. *Journal of MGS*: 61,1; 11–16
10. **Meracheva, G.** 2019. Burial and thermal history reconstruction of South Sakar Depression, Bulgaria. *Journal of MGS*: 62,1; 35–41
11. N. Hristov, **Meracheva, G.**, S. Bratkova. 2021. Methodical approach for forecasting possible zones of fault systems leakage related to hydrocarbon accumulations. *Journal of Chemical Technology and Metallurgy*, 56, 3, 609–614 (**SCOPUS**)
12. V. Dmytrenko, I. Zezekalo, Y. Vynnykov, N. Hristov and **G. Meracheva**. 2021. Increasing the production of gas condensate by using ammonium carbonate salts, E3S Web Conf., V 280, <https://doi.org/10.1051/e3sconf/202128007011>
13. N. Hristov, E. Zaneva-Dobranova, **G. Meracheva**, V. Dmytrenko, Y. Vynnykov. 2021. Relation between basic coal seam parameters and their gas saturation for Dobrudzha coal field, NE Bulgaria, E3S Web of Conferences, v. 280, <https://doi.org/10.1051/e3sconf/202128008006>
14. **Meracheva, G.** 2021. Thermal maturity modelling of Mesozoic and Cenozoic potential source rocks in NE Bulgaria. *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*, V. 21, Issue 1.1, 673–680, <https://doi.org/10.5593/sgem2021/1.1/s06.125>, ISSN 1314-2704 (**SCOPUS**)
15. **Meracheva, G.** 2021. Paleoreconstruction models and geological evolution of the northwestern part of the Thrace basin. *Annual of the University of Mining and Geology “St. Ivan Rilski”*, Vol. 64/2021, 127–134
16. Hristov, N., **G. Meracheva**, E. Zaneva-Dobranova. 2022. Fluid and rock properties characterization using seismic reconnaissance attributes in Bulgarian Black Sea shelf. XXII International Congress of the CBGA, Plovdiv, Bulgaria, 7–11 September 2022, Abstracts, p. 210
17. **Meracheva, G.**, Efrosima, Z.-D., Hristov, N. 2022. Seismic characterization analyses of the Bulgarian Black Sea shelf for assessment of reservoir properties. *Geologica Balcanica*, 2022, 51(3), 29–42. DOI10.52321/GeolBalc.51.3.2 (**SCOPUS**)
18. **Meracheva, G.**, E. Zaneva-Dobranova, N. Hristov. 2023. Hydrocarbon potential of Lower Paleozoic sediments in NE Bulgaria by geochemistry and well-logging, The 54th International October Conference on Mining and Metallurgy 18-21 October 2023, Bor Lake, Serbia, 452–455
19. Velichkova, P., **G. Meracheva**, N. Hristov, S. Bratkova, E. Zaneva-Dobranova. Study of opportunities for assessment of tightness of fault systems in Northwest Bulgaria through a combination of gas chromatography and molecular-genetic methods. *Ecologia Balkanica*, 15 (2), 47–57 (**SCOPUS**)
20. **Meracheva, G.**, E. Zaneva-Dobranova, N. Hristov. 2023. Characterization of the Lower Paleozoic sediments in NE Bulgaria for hydrocarbon potential assessment by integrating geochemical and geophysical research data. *Geologica Balcanica*, 2024, 53(1), (in print). (**SCOPUS**)

PROJECTS

1. Geological, Hydrogeological and Geomechanical modelling and simulation of Chiren Underground Gas Storage, Bulgartransgaz Ltd., 2015;
2. Subsurface and surface facility simulation for Chiren Underground Gas Storage, Bulgartransgaz Ltd., 2016;
3. Methods for evaluation of fault system tightness related to hydrocarbon accumulations, 2019, NSF;
4. Modernization of the "Laboratory of Reservoir Physics", by implementing a modern calcimeter to determine the carbonate content of rock samples, 2021, Regulation on financing infrastructure projects

SCIENTIFIC FORUMS

1. 51-st International Scientific Conference of UMG "St. Ivan Rilski", 2008
2. 56-th International Scientific Conference of UMG "St. Ivan Rilski", 2013
3. The 20th Congress of the Carpathian-Balkan Geological Association, 2014
4. 57-th International Scientific Conference of UMG "St. Ivan Rilski", 2014
5. V International scientific and technical conference "Geology and hydrocarbon potential of the Balkan-Black sea region", 2017
6. 61-st International Scientific Conference of UMG "St. Ivan Rilski", 2018
7. 62-nd International Scientific Conference of UMG "St. Ivan Rilski", 2019
8. Second International Conference on Sustainable Futures: Environmental, Technological, Social and Economic Matters (ICSF 2021)
9. SGEM Multidisciplinary Scientific Conference on Earth and Planetary Sciences, 2021
10. 64-th International Scientific Conference of UMG "St. Ivan Rilski"
11. 22nd Congress of the Carpathian-Balkan Geological Association, 2022
12. 65-th International Scientific Conference of UMG "St. Ivan Rilski"
13. 54th International October Conference on Mining and Metallurgy 18-21 October 2023, Bor Lake, Serbia