

Curriculum Vitae

Dr. Branislav Trivic

Associate Professor
**Faculty of Mining and Geology, University of Belgrade,
Department of Geology**

Date of birth: 31 of May 1961
Place of birth: Belgrade, Serbia
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Languages

Serbian, English

Higher education

- 1989: BSc Faculty of Mining and Geology, Department of Geology and Paleontology.
Bachelor Thesis: Tectonic fabric of Ridanj-Krepoljin fault zone (east Serbia).
1992: MSc in Structural geology, Faculty of Mining and Geology, Department of
Geology and Paleontology. Master Thesis: Tectonic fabric of granitoids of the
Bukulja Mt. (Central Serbia).
1998: PhD in Tectonics and Structural geology, Faculty of Mining and Geology,
Department of Geology and Paleontology. Ph.D. Thesis: Tectonic fabric of a
metamorphic rim of the granitoids of the Bukulja Mt. (Central Serbia).

Professional experience

- March 2011 – up to now: Associate professor at the Faculty of Mining and Geology,
University of Belgrade, Department of Geology and Paleontology, Serbia.
Courses: Structural Geology (lectures and laboratory), Structural-tectonic
Analysis (lectures), Remote Sensing (lectures and laboratory), GIS Application in
Geology (lectures and laboratory). Field course: Structural Geology. MSc and
PhD courses: Structural Analysis, Paleostress Analysis.
September 1998 – March 2011: Assistant professor at the Faculty of Mining and
Geology, University of Belgrade, Department of Geology and Paleontology,
Serbia. Courses: Structural Geology (lectures and laboratory). Field courses:

Structural Geology, Geological Mapping. MSc and PhD courses: Structural Analysis, Petrotectonics.

December 1989 – September 1998: Assistant at the Faculty of Mining and Geology, University of Belgrade, Department of Geology and Paleontology, Serbia. Course: Structural Geology (laboratory). Field courses: Structural Geology, Geological Mapping.

October 1988 – December 1989: Assistant Trainee at the Faculty of Mining and Geology, University of Belgrade, Department of Geology and Paleontology, Serbia. Course: Structural Geology (laboratory).

Fields of research

- Structural geology
- Tectonics and Geodynamics research
- Application of GIS in Geology, satellite image processing and application of remote sensing techniques in geological research.

Participation in scientific projects

2011-2014: Basic scientific projects funded by the Serbian Ministry of Science and Technological Development: *“Magmatism and geodynamics of the Balkan Peninsula from Mesozoic to present day: significance for the formation of metallic and non-metallic mineral deposits”*.

2010-2012: SCOPES Project, Swiss National Science Foundation: *“Serbo-Macedonian massif, an enigmatic terrain within the Eastern Mediterranean Alpine orogen”*.

2009-2012: SCOPES No IZ73Z0_1 28089 Project, Swiss National Science Foundation: *“Metal transport and ore deposition: The geology, geochemistry and geodynamic setting of mineral resources in Serbia, Macedonia and Bulgaria”*.

2007-2010: Ministero dell'istruzione, dell'universita e della ricerca, programmi di ricerca scientifica di rilevante interesse nazionale richiesta di cofinanziamento (dm n.582/2006 del 24 marzo 2006): *“Structural and Stratigraphic Studies on the Dinaric (Serbia-Montenegro) Hellenic (Epiro-Macedonia-Tessaly) and Crete Comparision with those of Albanids and Southern Hellenides”*.

2006-2010: Basic scientific projects funded by the Serbian Ministry of Science and Technological Development: *“Igneous, metamorphic and sedimentary processes related to the Alpine orogen in the central Balkan Peninsula”*.

2005-: CEEPUS – Central European Exchange Program for University Studies, local coordination for the Network *in Applied Geoinformatics* (leader for Serbia).

2002: World University Service, WUS Austria CEP Project: *“Image Processing and GIS”*.

2002-2003: World University Service WUS Austria CEP Project: *“Satellite Image Processing – Application in Geology (SIP-AiG)”*.

2000: Project INQUA Commission for glaciations, working group no. 5. Belgrade. *“Global compilation of development and time of different Quaternary glaciations”*

1999: Project of Serbian Academy of science and arts and Bulgarian Academy of science. *“Determination of seismic hazard in the boundary area of SE Serbia and West Bulgaria”*.

1996-2000: Basic scientific projects funded by the Serbian Ministry of Science: “*Geological study of the lithosphere of Serbia*”.

Projects and study required by industry (most recent)

Up to now: Participation in more than 50 research projects and studies required by industry and financed by national or foreign Institutions. Some of the major projects are listed below.

2012: FAO-SWALIM (2012). “*Hydrogeological Survey and Assessment of Selected Areas in Somaliland and Puntland*”. Technical Report No. W-20, FAO-SWALIM (GCP/SOM/049/EC) Project, Nairobi, Kenya.

2008: Serbian Ministry of Environmental and Spatial Planning: “*Development of Geological Terminology and Nomenclature*”.

2007-2009: Belgrade Land Development Public Agency. “*Landslide cadastre and GIS - BeoSLIDE for Area of Belgrade City Municipalities*”.

2005 – 2006: Agence Nationale des Ressources Hydrauliques (ANRH), Algerie: “*Carte des Ressources en Eau Souterraine Du Nord de l' Algerie*”.

2004 – 2007: Serbian Ministry of Environmental and Spatial Planning: “*Development and implementation of Geological Information System of Serbia Republic- GeolISS*”.

2002 – 2003: Electric Power Industry of Serbia. “*Landslides and Slope Stability in Terrain around Dams and Accumulation for Hydropower Plant system of Serbia Republic*”.

Scientific publications

Mladenović, A., Trivić, B., Antić, M., Cvetković, V., Pavlović, R., Radovanović, S., Fügenschuh, B. 2014. The recent fault kinematics in the westernmost part of the Getic nappe system (Eastern Serbia): Evidence from fault slip and focal mechanism data. *Geologica Carpathica*, 65 (2), in print, doi: 10.2478/geoca-2014-0011

Robertson, H. F. A., Trivić, B., Djerić N. & Bucur, I., 2013. Tectonic development of the Vardar ocean and its margins: evidence from the Republic of Macedonia and Greek Macedonia. *Tectonophysics*, 595: 25-54. ISSN: 0040-1951. <http://dx.doi.org/10.1016/j.tecto.2012.07.022>

Pavlović, R., Čalić, J., Djurović, P., **Trivić, B.**, Jemcov, I., 2012. Recent Landform Evolution in Serbia (Recent Landform Evolution - The Carpatho-Balkan-Dinaric Region). *Springer Geography, Monography, Chapter 13*, 345-375, DOI: 10.1007/978-94-007-2448-8_13. ISBN: 978-94-007-2447-1. http://link.springer.com/chapter/10.1007%2F978-94-007-2448-8_13.

Abolmasov, B., Đurić, U., Pavlović, R., **Trivić, B.**, 2012. Tracking of Slow Moving Landslide by Photogrammetric Data - Case Study, 11th International & 2nd North American Symposium on Landslides, Banff, Canada; Eberhardt E, ISBN 978-0-415-62123-6. <http://www.isl-nas12012.ca/>.

Antić, M., Peytcheva I., von Quadt, A., Kounov, A., **Trivić, B.**, Serafimovski, T., Tasev, G. and Gerdjikov, I., 2012. Protholithic age and geochemistry of magmatic rocks from the Serbo-Macedonian massif (south Serbia, southwest Bulgaria and east Macedonia). *Geophysical Research Abstracts*, Vol. 14, EGU2012-5638-1, EGU General Assembly 2012, 22 – 27 April 2012, Vienna. <http://meetingorganizer.copernicus.org/EGU2012/EGU2012-5638-1.pdf>

Lokin, P., Pavlović, R., **Trivić, B.**, Lazić, M., Batalović, K., Đurić, U., 2012. Katastar klizišta Beograda (Belgrade Landslide Cadastre); Zbornik radova XIV Simpozijum inženjerske geologije i

- geotehnike, Društvo geoloških inženjera i tehničara Srbije, Komitet za inženjersku geologiju i geotehniku, str. 389-403. ISBN 978-86-89337-01-3.
<http://cobiss.izum.si/scripts/cobiss?command=DISPLAY&base=COBIB&RID=193445132>
- Antić, M., Kounov, A., **Trivić, B.**, Peytcheva, I., von Quadt, A., Gerdjikov, I., Serafimovski, T., Tasev, G., 2011. Unravelling of continued magmatic activity along the Serbo-Macedonian massif since the Precambrian (south Serbia, southwest Bulgaria and Macedonia). Abstract Volume, 9th Swiss Geoscience Meeting Zurich, 11th – 13th November 2011, Structural Geology, Tectonics and Geodynamics.
http://geoscience-meeting.scnatweb.ch/sgm2011/abstracts_2011/SGM_2011_Symposium_01.pdf
- Antić, M., Kounov, A., **Trivić, B.**, Peytcheva, I., von Quadt, A., Gerdjikov, I., Serafimovski, T. and Tasev, G., 2011. Preliminary structural and geochemical data from the Serbo-Macedonian Massif (South Serbia, Southwest Bulgaria and Macedonia). Geophysical Research Abstracts, Vol. 13, EGU2011-9202-1, EGU General Assembly 2011, 04 – 08 April 2011, Vienna.
<http://meetingorganizer.copernicus.org/EGU2011/EGU2011-9202-1.pdf>
- Chiari, M., Djerić, N., Garfagnoli, F., Hrvatović, H., Krstić, M., Levi, N., Malasoma, A., Marroni, M., Menna, F., Nirta, G., Pandolfi, L., Principi, G., Saccani, E., Stojadinović, U., & **Trivić, B.**, 2011. The Geology of the Zlatibor-Maljen Area (Western Serbia): a Geotraverse Across the Ophiolites of the Dinaric-Hellenic Collisional Belt (Article). OFIOLITI, vol. 36 br. 2, str. 137-164, Publisher Edizioni ETS. DOI:10.4454/ OFIOLITI.V36.I2.3. ISSN: 0391-2612.
<http://ofioliti.it/index.php/ofioliti/article/view/399>
- Đurić, U., Abolmasov, B., Pavlović, R., **Trivić, B.**, 2011. Using ArcGIS for Landslide „Umka“ 3D Visualisation. Proceedings of the 17th Meeting of the Association of European Geological Societies, Belgrade, 21-25, ISBN 978-86-86053-10-7.
<http://www.maegs-17.rs/>
- Robertson, A., **Trivić, B.** and Djerić, N., 2011. New data from the Vardar suture zone in the Republic of Macedonia (FYROM) used to test alternative models of Jurassic ophiolite emplacement and Neotethyan evolution in the Balkan region. Geophysical Research Abstracts, Vol. 13, EGU2011-1527, EGU General Assembly 2011, 04 – 08 April 2011, Vienna. M34, ISSN:
<http://meetingorganizer.copernicus.org/EGU2011/EGU2011-1527.pdf>
- Stanković, R., **Trivić, B.**, Kitanović, Blagojević, B., Nikolić, V., (2011): Razvoj geološkog terminološkog rečnika - GeolISSTerm (Development of Geological Terminology Vocabulary – GeolISSTerm). INFoteka: časopis za informatiku i bibliotekarstvo, vol. XII, No., 153-67, ISBN 1450-9687, Zajednica biblioteka Univerziteta u Srbiji. ISSN: 1450-9687.
<http://infoteka.bg.ac.rs/index.php?where=10&Jezik=latinica>
- Trivić, B.**, Blagojević, B., Cvetković, V., Banjac, N., Jelenković, R., Simić, V., Mijović, D., Dragišić, V., Polomčić, D., Jevremović, D., Cvetković-Mrkić, S., Sunarić, D., Lazić, M., Papić, P., Jović, V., Stojković, J., 2011. Rečnik geoloških termina i pojmova geološkog informacionog sistema Srbije (Glossary of geological terms and concepts of geological information system of Serbia). Ministarstvo životne sredine, rudarstva i prostornog planiranja, 1-504; ISBN 978-86-87159-09-9.
<http://geoliss.ekoplan.gov.rs/term/OProjektu.aspx>
- Zelic, M., Levi, N., Malasoma, A., Marroni, M., Pandolfi, L., **Trivic, B.**, 2010. Alpine tectono-metamorphic history of the continental units from Vardar zone: the Kopaonik Metamorphic Complex (Dinaric-Hellenic belt, Serbia), GEOLOGICAL JOURNAL, vol. 45, br. 1, str. 59-77 (Article).
<http://onlinelibrary.wiley.com/doi/10.1002/gj.1169/full>

- Zelic, M., Marroni, M., Pandolfi, L., **Trivic, B.**, 2010. Tectonic Setting of the Vardar Suture Zone (dinaric-hellenic Belt): the Example of the Kopaonik Area (southern Serbia), OFIOLITI, vol. 35, br. 1, str. 49-69 (Article)
- Trivic, B.**, Cvetkovic, V., Smiljanic, B., Gajic, R., 2010. Deformation Pattern of the Palaeozoic Units of the Tethyan Suture in the Central Balkan Peninsula: a New Insight from Study of the Bukulja-Lazarevac Palaeozoic Unit (Serbia), OFIOLITI, vol. 35, br. 1, str. 21-32 (Article)
- Kovacevic, M., Bajat, B., **Trivic, B.**, Pavlovic, R., 2009. Geological Units Classification of Multispectral Images by Using Support Vector Machines, 2009 INTERNATIONAL CONFERENCE ON INTELLIGENT NETWORKING AND COLLABORATIVE SYSTEMS (INCOS 2009), vol. , br. , str. 267-272 (Proceedings Paper)
- Principi, G., Levi N., Menna, F., Nirta, G., Marroni, M., Pandolfi, L., **Trivic, B.**, Chiari, M., Saccani, E., Garfagnoli, F. 2008. The geology of the Internal Dinarides in the Zlatibor-Maljen area (Central-Western Serbia); Rendiconti Societa Geologica Italiana 1 (2008), 143-147, Roma.
- Zelić, M., Levi, N., Malasoma, A., Marroni, M., Pandolfi, L., **Trivić, B.**, 2008. Alpine tectono-metamorphic history of the continental units from Vardar Zone: the example of Kopaonik Metamorphic Complex (Dinaric-Hellenic belt, Serbia); Rendiconti Societa Geologica Italiana 1 (2008), 203-208, Roma; kategorija M52.
- Blagojević, B., **Trivić, B.**, Stanković, R., Banjac, N., 2008. Kratak pregled implementacije Geološkog informacionog sistema Srbije (A Brief Overview of the Implementation of Geological Information System of Serbia). Zapisnici Srpskog geološkog društva za 2007.godinu; Srpsko geološko društvo, Beograd, pp.37-44., ISSN 0372-9966.
- Beličević, V., Pavlović, R., **Trivić, B.**, Bojović, M., Ljumović G., 2007. GIS and remote sensing for improvement of groundwater management in Northern Algeria. XXXV Congress of the IAH Groundwater and Ecosystems 17-21 September. Lisbon, Portugal.
- Jemcov, I., Živanović, V., Čolić, S., Milanović, S., **Trivić B.**, 2007. Vulnerability assessment and application of remote sensing - Groundwater resource analysis of National park "Tara". XXXV Congress of the IAH Groundwater and Ecosystems 17-21 September. Lisbon, Portugal.
- Trivić, B.**, Jelić, D., 2007. Structural and tectonic features of the western part of Carpatho-Balkanides: evidence from paleostress analyses of Ravanica area. International Conference: Advances in Regional Geological and Metallogenic Studies in the Carpathians, Balkans Rhodope Massif and Caucasus (Romania, Serbia, Bulgaria and Georgia). September 4-7, Bor, Serbia.
- Lokin, P., Abolmasov, B., Petričević, M., **Trivić, B.**, Pavlović, R., 2005. Metodologija procene hazarda i rizika od pojava nestabilnosti u uticajnim područjima hidroenergetskih objekata u Srbiji. Rudarstvo - naučno stručni časopis: Geotehnika u funkciji zaštite okoliša, Rudarski institut u Tuzli. pp. 25-33. Tuzla, Bosna i Hercegovina.
- Menković, Lj., Marković, M., Čupković, T., Pavlović, R., **Trivić, B.**, Banjac, N., 2004. Glacial morphology of Serbia, with comments on the Pleistocene Glaciation of Montenegro, Macedonia and Albania. Quaternary Glaciations – Extent and Chronology, Ed. J. Ehlers and P. L. Gibbard, pp. 379-384, Elsevier, Netherland.
- Pavlovic, R., **Trivic, B.**, Blagojevic, B., Jelenkovic, R., Colic, S., 2004. Results of multi-spectral satellite imagery analysis in the study of the Mt. Rudnik (Central Serbia) metalogeny. Proceedings of First Mediterranean Conference on Earth Observation (Remote Sensing) - MeCEO2004. Faculty of Mining and Geology, Remote sensing center, Belgrade University. pp. 327-335. Belgrade.

- Pavlovic, R., Nikic, Z., **Trivić, B.**, 2003. The role of ground and underground waters in evolution of the ring structure of Jastrebac Mt. RMZ – Materials and Geo-environment, vol. 50, no. 1, pp. 293-296. Ljubljana.
- Erić, V., **Trivić, B.**, Matović, V., 2001. Petrological, structurological, technological characteristics of Bukulja granitoide in out crop area "Ploča".- III International Symposium and Conference "Kamen", pp. 143-148, Arandjelovac.
- Trivić, B.**, Marković, M., Pavlović, R., Čupković, T., Vlahović M., 2000. Application of Remote Sensing Methods and Structural Analysis for Definition of Main direction of Water Loosing from the "Slano" Accumulation near Niksic, Montenegro, (Yugoslavia). Proceedings of the 6th International Symposium and Field Seminar on: "Present State and Future Trends of Karst Studies", pp 607-614, September 17-26. 2000 – Marmaris, Turkey.
- Trivić, B.**, 1998: Tectonic Fabric of a Metamorphic Rim of the Granitoide of the Bukulja Mt. - D.Sc. Dissertation, Faculty of Mining and Geology, University of Belgrade, Belgrade.
- Trivić, B.**, Čupković, T., Jemcov, I., Blagojević, B., Nikolić, V., 1998. Development of Geological information system of Yugoslavia. - XIII Yugoslavian Geological Congress, "Regional geology, stratigraphy and palaeontology", b. 2, pp. 37-41. Herceg Novi.
- Čupković, T., Jemcov, I., **Trivić, B.**, 1998. Spatial geologic data as the base of geological information system. - XIII Yugoslavian Geological Congress, "Regional geology, stratigraphy and palaeontology", b. 2, pp. 395-402., Herceg Novi.
- Gajić, R., **Trivić, B.**, 1998. Tectonic Characteristic of Terrain between N. Varoš and Prijepolje (sheet Prijepolje II).- XIII Yugoslavian Geological Congress, "Regional geology, stratigraphy and palaeontology", b. 2, pp. 403-415., Herceg Novi.
- Toljić, M., **Trivić, B.**, 1997. Contribution to the Study of Upper Cretaceous Deposits of Belgrade Environs.-Geol. an. Balk. pen., Vol. LXI/1, pp. 115-124, Belgrade.
- Doković, I., Marović, M., Pešić, L., **Trivić, B.**, Toljić, M., 1997: Acid Pluton Diapirism in Vardar Zone.- Geol. an. Balk. pen., Vol. LXI/1, pp. 17-26, Belgrade.
- Blagojević, B., **Trivić, B.**, 1996. Paleostress Tensor Determination by Inverse Method.- Geol. an. Balk. pen., Vol. LX, pp. 159-168, Belgrade.
- Blagojević, B., **Trivić, B.**, 1996. Application of Inverse Method in Tensor Analysis of Rocks.- XI Yugoslavian Symposium of hydrogeology and engineering geology, 1-4.10.1996, book 2, pp. 345-352, Budva
- Čupković, T., Marković, M., Pavlović, R., **Trivić, B.**, 1996. Methods of relief resenatation in GIS. The first Yugoslav conference of GIS techniques, Geographical institute "Jovan Cvijic", Serbian Academy of Sciences and Arts, b. 1, pp.197-203., Belgrade.
- Pavlović, R., Marković, M., **Trivić, B.**, Čupković, T., 1996. Fracture pattern, ring structures and Tertiary magmatism in the Vardar Zone. Terranes of Serbia: The formation of the Geologic Framework of Serbia and the Adjacent Regions, dedicated to Academic Stevan Karamata. Editors V. Kne`ević-Đorđević and B.Krstić. Faculty of Mining and Geology, University of Belgrade and Committee for Geodynamics of the Serbian Academy of Sciences and Arts, pp. 167-171. Belgrade.