




PERSONAL INFORMATION

**Petar Stefanov Stefanov**



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-  Telephone **+359 898 519 997**
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**Gender** Man | **Date of birth** 15/05/1954 | **Nationality** Bulgarian

EDUCATION AND TRAINING

- Dates
- Name and type of organisation providing education and training
- Title of qualification awarded

**1974 - 1978**

Sofia University "St. Kliment Ochridski "  
Master: Geographer-physicogeographer: geomorphologist-cartographer, teacher of geography

- Dates
- Name and type of organisation providing education and training
- Title of qualification awarded

**02.1979 – 02.1982**

Institute of Geography, Bulgarian Academy of Sciences  
Doctoral studies

WORK EXPERIENCE

- Dates
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

**from 21.01.2019**

National Institute of Geophysics, Geodesy and Geography  
Acad. G. Bonchev str., bl. 3, 1113 Sofia, Bulgaria  
Science  
Geographer  
Research

- Dates
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

**01.07.2010 – 16.11.2018**

National Institute of Geophysics, Geodesy and Geography  
Acad. G. Bonchev str., bl. 3, 1113 Sofia, Bulgaria  
Science  
Geographer  
Research

- Dates
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

**21.01.2003 – 31.12.2011**

Central Editing committee for pedagogical publications - Ministry of Education and Science  
Publishing activity  
Editor  
Heads an editorial office of the magazine "Geographic Education" / "GEOgraphy '21"

- Dates
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

**01.01.1994 – 01.07.2010**

Institute of Geography, Bulgarian Academy of Sciences  
Science  
Specialist researcher  
Research

- Dates
- Name and address of employer
- Type of business or sector
- Occupation or position held

**01.09.1991 – 01.06.1993**

139 Zahari Krusha Primary School, Sofia  
Educational  
Geography teacher

- Dates
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

**01.02.1982 – 31.12.1988**

Institute of Geography, Bulgarian Academy of Sciences  
Science  
Specialist researcher  
Research

- Dates
- Name and address of employer
- Type of business or sector
- Occupation or position held

**05.10.1979 - 17.01.1979**

Primary school "St.St. Cyril and Methodius ", Sarnitsa village,  
Pazardzhik district  
Educational  
Educator

**MOTHER TONGUE(s)**

Other languages  
Russian  
German  
Polish  
Czech

Bulgarian

• Reading skills

excellent  
good  
good  
basic

• Writing skills

good  
basic  
-  
-

• Verbal skills

good  
basic  
basic  
basic

**SOCIAL SKILLS AND COMPETENCES**

Correctness, ethics and tolerance in interpersonal relationships; high degree of responsibility, accuracy and professionalism in teamwork; good communication skills; experience in organizing and maintaining international contacts and teams; development and experimentation of original national and international initiatives, incl. innovative; experience in organizing public events for promoting scientific researches and results; skills for field training of pupils and students; experience in building a partnership "science - management - business"; impartial participation in the jury of competitions and contests, incl. international.

**ORGANISATIONAL SKILLS AND COMPETENCES**

- Organizing and conducting interdisciplinary field research - individual and in a team, incl. interinstitutional and international;
- Organizing and leading research expeditions, incl. cave, incl. with international participation;
- Building scientific networks, incl. for instrumental monitoring;
- Organizing and conducting field experiments, incl. in cave systems;
- Preparation and management of research projects - national and international;
- Organization and equipment of a research base - specialized field infrastructure, incl. underground / cave stations for monitoring and laboratory base (Experimental Laboratory of Karstology at NIGGG-BAS);
- Initiation and organization of international cooperation;
- Organizing and leading scientific forums - national and international;
- Editing periodicals and scientific publications;
- Expert and consulting activities;
- Organizing and conducting various innovative educational forms, incl. international - specialized excursions, student internships, traveling schools, competitions, contests;

- Organizing public events with scientific topics, incl. specialized museum exhibitions, thematic exhibitions, public lectures, commemorative evenings;
- Organizing and maintaining Web-based information products (specialized sites);
- Establishment and management of NGOs.

## PROFESSIONAL SKILLS AND COMPETENCES

### Fields of professional interest

#### General:

Karstology and speleology; Geomorphology; Regional geographical research; Cartography; Global change and global problems; Innovative geographical education.

#### Priority: **Karstology and speleology:**

Geosystem approach and karst geosystems; Specialized integrated monitoring of karst systems; Karst hydrology and hydrogeology; Hydrochemistry of karst waters; Climatology and cave climate; Carbon cycle in karst geosystems; Radon activity and radiation exposure; Tectonic-seismic activity in cave systems; Karst morphogenesis and karst denudation; Global change and karst; Land use, anthropogenic pressure and sustainable development of karst areas; Protected karst territories; Health risks in tourist caves; Legislation and karst.

### Professional Specializations

2004-2019: **Department of Radiodosimetry of the Institute of Nuclear Physics of the Czech Academy of Sciences, Prague** (Dr. I. Svetlik, Dr. K. Turek) - joint laboratory work for application of radionuclide methods in karstology, radiocarbon dating of karst terrain samples, radon activity in caves;

2008, 2009, 2010, 2011, 2012, 2015, 2018: **Administration of PLA Moravský kras, Blansko (Czech Republic)** - workshops-discussions, joint field research and exchange of experience in the management of protected karst areas;

2008, 2014, 2018: **Directorate of Natural Landscape Parks of Silesian Voivodeship, Będzin, Poland** - exchange of experience in the management of protected karst areas;

2010, 2011, 2012, 2018: **Cave Administration of the Czech Republic, Prague** - exchange of experience for speleoclimatic instrumental monitoring;

2005, 2007, 2015: **ITA-Consult, Albania** (Prof. R. Eftimi) - hydrogeology of karst waters and joint field trials; 1996-2005: University of Silesia, Katowice, Poland (Prof. M. Pulina, Prof. V. Andreychuk) - short-term specializations in karst water hydrochemistry, karst denudation and speleogenesis.

### Scientific expeditions in abroad

**China**, Yunnan Province: Bulgarian-Chinese Karst Research Expedition (January 1990)

**Cuba**, the Guaso Plateau: Bulgarian-Cuban Karst Research Expedition (January and February 1988)

## TECHNICAL SKILLS AND COMPETENCES

Computer skills: Microsoft Office, Adobe Photoshop;

Skills for working with scientific research equipment (laboratory and field):

- hydrometric and meteorological;
- hydrochemical;
- lysimetric;
- for radiation measurements;
- GPS;
- scientific networks for instrumental speleomonitoring.

Using the technique for penetration in caves;

Organizing and maintaining integrated monitoring in karst systems;

Thematic and special mapping, incl. using computer technology;

Photographic skills.

**ADDITIONAL  
INFORMATION****RESEARCH ACTIVITY:****DEVELOPED PROJECTS**

A total of **61**, of which the head of **20**

Selected projects, funded by:

**Bulgarian National Science Fund (NSF):****Project coordinator :**

**Complex map of karst in Bulgaria in scales 1: 400 000 and 1: 600 000, based on GIS** (2003-2008) (contract № IO-2/2003)

**Models of karst denudation in Bulgaria** (2003-2007) (contract № NZ-1301/2003)

**Scientific bases for building a cadastre of karst in Bulgaria, based on GIS** (1995-1999) (contract № NZ-525/1995)

**Participant::**

**Current impacts of global changes on evolution of karst (based on the Integrated monitoring of model karst geosystems in Bulgaria) (ProKARSTerra–Glob`Change)** (2018-2021) (contract № DH 14/10 - 20.12.2017) - project coordinator: Assoc. Prof. Dr. P. Nozharov

**Exploration of changes in some geophysical fields preceding the occurrence of earthquakes in the Balkans** (2018-2021) (contract № DN14 / 1 - 13.12.2017) - project coordinator: Prof. Dr. E. Botev.

**Development of an experimental model of complex monitoring for sustainable development and management of protected karst territories (ProKARSTerra)** (2009-2012) (contract № DO 02.260 / 18.12.2008) - project coordinator: Assoc. Prof. Dr. M. Yordanova

**Modern methods for assessment of karst territories in Bulgaria aiming at rational land use** (2000-2003) (contract SS-905/1999) - project coordinator: Prof. N. Ninov

**Models of contemporary periglacia morphogenesis** (2003-2007) (contract № NZ-1302/2003) - project coordinator: Assoc. Prof. Dr. G. Alexiev

**Experimental introduction of modern technologies (GIS and Internet) in the teaching of geography and economics in secondary school** (2003-2007) (contract № OHN-1311/2003) - project coordinator: Prof. G. Baltakov

**Geographical research on Livingston Island** (1999) (project with the Faculty of Geology and Geography at Sofia University) - project coordinator: Assoc. Prof. Dr. D. Topliiski

**Models of sustainable development of karst region** (1998) (contract № V-NZ-6/98) - project coordinator: Prof. N. Ninov

**Designing a model of GIS for administrative and educational purposes** (1994-1998) (contract № SSH- 440/1994) - project coordinator: Prof. G. Baltakov

**Dynamics of karst geosystems in Bulgaria** (1994-1998) (contract № NZ-432/1994) - project coordinator: Assoc. Prof. Dr. P. Petrov

**Functional modeling of karst geosystems using GIS** (1993-1995) (contract № NZ-301/1993) - project coordinator: Dr. D. Mihova

**Hydrogeochemistry, hydrogeology and vulnerability to contamination of karst (on the example of the Nastan-Trigrad karst basin, Western Rhodopes)** (1992-1995) (contract NZ-217/1992 of MGU - Sofia) - project coordinator: Assoc. Prof. Dr. B. Velikov

**Design and building up of GIS database for a karst complex as a base for functional modeling of a karst geosystem** (1991-1993) (contract № NZ-47/1993) - project coordinator: Dr. D. Mihova

**Comparative geodynamics of karst geosystems in the Fore-Balkans and the Western Rhodopes** (1991-1994) (contract № NZ-3/1993) - project coordinator: Assoc. Prof. Dr. S. Velev

**Bilateral academic cooperation:****BG-project coordinator :**

**Application of radiocarbon dating in the research of karst systems.** (2014-2016). Partner: Department of Radiation Dosimetry, Nuclear Physics Institute, Prague (Czech Academy of Sciences)

**Tectonic activity of the significant karst systems (development correlation of the Central Europe and Mediterranean area)** (2014-2016) Partner: Department of Engineering Geology, Institute of Rock Structure and Mechanics, Prague (Czech Academy of Sciences)

**Application of radionuclide methods in an experimental model for Integrated monitoring of karst geosystems** (2011-2013). Partner: Department of Radiation Dosimetry, Nuclear Physics Institute, Prague (Czech Academy of Sciences)

**Application determination of radionuclides and radionuclide dating methods to study anthropogenic influencing in vulnerable geosystems (2008-2010).** Partner: Department of Radiation Dosimetry, Nuclear Physics Institute, Prague (Czech Academy of Sciences)

**Specialized radiometric researches of the state and the functioning of vulnerable to anthropogenic influences geosystems - karst and periglacial (2004-2007).** Partner: Department of Radiation Dosimetry, Nuclear Physics Institute, Prague (Czech Academy of Sciences)

Participant:

**Plate-wide tectonic pressure pulses (correlation of the extensometric monitoring in Mediterranean and Central Europe) (2017-2019).** Partner: Department of Engineering Geology, Institute of Rock Structure and Mechanics, Prague (Czech Academy of Sciences) – BG-project coordinator: Prof. Dr. E. Botev

**Comparative evaluation of land use practices in vulnerable case study areas in Bulgaria and Czech (2014-2016).** Partner: Department of Environmental Geography, Institute of Geonics, Brno (Czech Academy of Sciences) - BG-project coordinator: Assoc. Prof. Dr. D. Stefanova

**Assessment of anthropogenic impacts on vulnerable model geosystems in protected areas aiming at their sustainable development (2011-2013).** Partner: Department of Environmental Geography, Institute of Geonics, Brno (Czech Academy of Sciences) - BG-project coordinator: Assoc. Prof. Dr. D. Stefanova

**Land use and karstogenesis in Central and Southeastern Europe (2002-2005) -** Partner: Faculty of Earth Sciences, University of Silesia, Sosnowiec (Poland) – Bg- project coordinator: Assoc. Prof. Dr. G. Alexiev

**Evolution of river valleys and modern fluvial processes in mountainous areas (Polish Carpathians - Stara Planina - Kraishte) (1986-1987) –** Partner: Geographical Institute of the Polish Academy of Sciences

**Caucasus - Rhodopes - comparative geographical research (1985) -** Partner: Geogr. inst. USSR Academy of Sciences

UNESCO:

Project coordinator :

**First international competition for students "Karst - the last "white spot" on the Planet Earth" - UNESCO Participation Programme 2018-2019 ( contract № 9290116061)**

**Travelling Summer School of Karst - UNESCO Participation Programme 2014-2015 (contract № 7290115062BUL)**

**ProKARSTerra-Edu: Integration between the research concept of karst geosystems and the educational concept of "Lifelong Learning" (based on the example of model Protected Karst Territories in Bulgaria) - UNESCO Participation Programme 2012-2013 ( contract № 6651406001BUL)**

EU operational programs:

Participant:

**Structure and management of Shumen Plateau National Park (Operational Program "Environment", beneficiary: Shumen Plateau National Park Directorate, contract D-1/22.02.2013)**

**Shumen Plateau Nature Park - European Park for the Future (Operational Program „Environment”, beneficiary: Shumen Plateau National Park Directorate, contract 02-O2/02.07.2012)**

National Roadmap for Scientific Infrastructure:

Participant:

Consortium **"National Geoinformation Center (NGIC)" (2020-2027) (contract № D01-404/18.12.2020) - Theme block "Karst"**

State targeted funding:

Project coordinator :

**Innovative education through the karst (project under the program of BAS "Introduction of modern methods in education and work with young talents", Decree of the Council of Ministers № 347 of 08.12.2016) (2017-2018) (contract № DSD-2 / 05.04 .2017)**

Participant:

**State Geomorphological map of Bulgaria in M 1: 100 000 (with explanatory notes) (1996-2008). Assignor: Ministry of Environment and Water - project coordinator: R. Marinova**

Institute of Geography, Bulgarian Academy of Sciences:

Project coordinator :

**Study of the dynamics of karst processes in the mountainous regions of Bulgaria. Interaction between surface and underground karst processes. The role of biogenic and anthropogenic factors (1988)**



Participant::

**Complex monitoring of the status and assessment of the general ecological condition of Beli Iskar Dam and its catchment area** (2002) - joint project with INRNE - BAS  
**Altitude-morphographic types of relief in the Danube plain** (1988)  
**Morphostructural and morphosculpture analysis of the relief and compiling a set of geomorphological maps** (1986-1987)  
**Morphodynamic and morphometric features of the mountains** (1985)  
**Study of slope processes in the western and central part of Northern Bulgaria** (1984)

External organizations and institutions:Project coordinator :

**Geographical characteristics of Dabrash, Western Rhodopes** (1985) - Assignor: Ed. "Encyclopedia Blagoevgrad"

Participant :

**Physico-geographical zoning of mountain territorial complexes** (1986) - Assignor: Institute of soil science "Nikola Poushkarov"

**FIELD STUDIES  
CONDUCTED**

Over **370** with a total duration of over **1,900 days**, incl. 15 with a duration of 135 days CONDUCTED abroad (Cuba, China, Czech Republic, Ukraine, Albania). Field research in cave systems has a total duration of over **3,900 hours**, of which 660 hours in caves in abroad.

**PUBLICATIONS**

A total of **99**, of which:

**Scientific**Parts of a monograph and a book:

Stefanova D., P. Stefanov. **Current state and problems of cave tourism in Bulgaria**. In: Traditions and Innovations in Contemporary Tourism, Cambridge Scholars Publishing, 20, 2018, 170-189.

Stefanov, P. **Physical-geographical characteristics of the Western Rhodopes**. In: Biodiversity of Bulgaria. 3. Biodiversity of Western Rhodopes (Bulgaria and Greece), Beron, P. A. Popov (eds.), Pensoft & Nat. Mus. Natur, Hist., Sofia, 2006, 15-79.

Stefanov, P. Relief: **Morphographic Characteristics**. In: Geography of Bulgaria, Part 1: Physical Geography, Sofia: Ed. ForCom, 2002, pp. 29-43. (in Bulgarian)

**Encyclopedia "Bulgaria", vol. 7**, Ed. of BAS, Sofia, 1998 (in Bulgarian) - 3 author's articles  
**Encyclopedia "Pirin Region", V. 2**. "Encyclopedia" Publ. House, Blagoevgrad, 1999, 474 p. (in Bulgarian) - 45 author's articles, 18 author's photos.

**Encyclopedia "Pirin Region", V. 1**. "Encyclopedia" Publ. House, Blagoevgrad, 1994, 608 p. (in Bulgarian) - 68 author's articles, 21 author's photos, 1 map.

Mikhailov, Ts., P. Stefanov. **Stara Planina Convolut-Chain region**. In: Natural and Economic Potential of Mountains in Bulgaria: V.1., Nature and Resources, Ed. BAS, Sofia, 1989, pp. 33-48. (in Bulgarian)

Studies in scientific journals: total 8

Stefanov, P. **Innovations in geographical education? Wasted opportunities**. SocioBrains, 78, 2021, 624-668 (in Bulgarian)

[http://sociobrains.com/website/w1465/file/repository/10\\_Petar\\_Stefanov.pdf](http://sociobrains.com/website/w1465/file/repository/10_Petar_Stefanov.pdf)

Turek, K., P. Stefanov, S. Kyurkchiev. **Radon activity concentrations in selected caves in the Western Rhodopes with different ventilation regime**. SocioBrains, 78, 2021, 52-84 (in Bulgarian)

[http://sociobrains.com/website/w1465/file/repository/3\\_Karel\\_Turek\\_Petar\\_Stefanov\\_Stoyan\\_Kyurkchiev.pdf](http://sociobrains.com/website/w1465/file/repository/3_Karel_Turek_Petar_Stefanov_Stoyan_Kyurkchiev.pdf)

Stefanov, P. **Integrated monitoring of the Saeva dupka cave system ("Saeva dupka" Speleo-MIKS)** Problems of Geography, 4, 2020, 3-40 (in Bulgarian).

[http://geoproblems.eu/wp-content/uploads/2021/02/2020\\_4/1\\_stefanov.pdf](http://geoproblems.eu/wp-content/uploads/2021/02/2020_4/1_stefanov.pdf)

Stefanov, P., D. Stefanova, K. Turek. 2020. **Microclimatic and radiation conditions, and human health risks in show caves in Bulgaria (based on the results of integrated monitoring)**. Problems of Geography, 3, 2020, 47-100 (in Bulgarian).

[http://geoproblems.eu/wp-content/uploads/2020/12/2020\\_3/4\\_stefanov.pdf](http://geoproblems.eu/wp-content/uploads/2020/12/2020_3/4_stefanov.pdf)

Stefanova, D., Stefanov, P., JeleV, G. **Changes in land coverage and land use in selected model karst areas of Bulgaria**. Problems of Geography, 3, 2020, 157-186 (in Bulgarian). [http://geoproblems.eu/wp-content/uploads/2020/12/2020\\_3/9\\_stefanova.pdf](http://geoproblems.eu/wp-content/uploads/2020/12/2020_3/9_stefanova.pdf)

Stefanov, P., D. Stefanova. **The First International Competition for students "Karst - the last „white spot“ on the planet Earth" – results and perspectives.** SocioBrains, 66, 2020, 199-230. (in Bulgarian)

[http://sociobrains.com/MANUAL\\_DIR/SocioBrains/Issue%2066,%20February%202020/Natural%20Geography/11\\_%20Petar%20Stefanov,%20Dilyana%20Stefanova.pdf](http://sociobrains.com/MANUAL_DIR/SocioBrains/Issue%2066,%20February%202020/Natural%20Geography/11_%20Petar%20Stefanov,%20Dilyana%20Stefanova.pdf)

Baltakov, G., P. Stefanov, D. Mikhova. **Professor Zhivko Galabov, Correspondent member of the Bulgarian Academy of Sciences - Life and Achievements.** Problems of Geography, 2-3, 2009, 5-32.

Stefanov, P. **In memory of the Bulgarian Geographical Society.** GEOgraphy `21, 6, 2008, 34-46 (first part); GEOgraphy `21,1, 2009, 20-35 (second part) (in Bulgarian)

<http://www.prokarstterra.bas.bg/geo21/>

#### Articles in scientific journals: total 47

Andreychouk V, P. Stefanov. **Some methodological remarks concerning of karst studies from the system approach perspective.** Problems of Geography, 1, 2021, 12-24.

[http://geoproblems.eu/wp-content/uploads/2021/05/2021\\_1/2\\_andr.pdf](http://geoproblems.eu/wp-content/uploads/2021/05/2021_1/2_andr.pdf)

Jelev, G., D. Stefanova, P. Stefanov. **Land Cover and land use change in karst region Devetashko plateau.** Aerospace Research in Bulgaria, 33, 2021, 51-78.

[http://journal.space.bas.bg/arhiv/n%2033/Articles/5\\_Jelev.pdf](http://journal.space.bas.bg/arhiv/n%2033/Articles/5_Jelev.pdf)

Stefanova, D., P. Stefanov. **Socio-economic problems in vulnerable karst territories (case study of Brestnitsa karst area).** SocioBrains, 78, 2021, 322-342 (in Bulgarian).

[http://sociobrains.com/website/w1465/file/repository/12\\_Dilaya\\_Stefanova\\_Petar\\_Stefanov.pdf](http://sociobrains.com/website/w1465/file/repository/12_Dilaya_Stefanova_Petar_Stefanov.pdf)

Nojarov P., P. Stefanov, K. Turek. 2020. **Influence of some climatic elements on radon concentration in Saeva Dupka Cave, Bulgaria.** International Journal of Speleology, 2020, 49 (3), 235-248. <https://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=2349&context=ijs>

Stefanov, P. 2020. **International Scientific and Practical Forum "Protected Karst Territories – Legislation, Tourism, Monitoring" (ProKARSTerra 2019).** Problems of Geography, 3, 2020, 3-10. (in Bulgarian).

[http://geoproblems.eu/wp-content/uploads/2020/12/2020\\_3/1\\_prokarstterra.pdf](http://geoproblems.eu/wp-content/uploads/2020/12/2020_3/1_prokarstterra.pdf)

Turek K., P. Stefanov, H. Orčíková. **Monitoring of Radon concentrations in Bulgarian show caves (with assessment of radiation risk).** Problems of Geography, 3, 2020, 101-117. (in Bulgarian)

[http://geoproblems.eu/wp-content/uploads/2020/12/2020\\_3/5\\_turek.pdf](http://geoproblems.eu/wp-content/uploads/2020/12/2020_3/5_turek.pdf)

Botev E., V. Protopopova, I. Popova, P. Stefanov. **Seismic monitoring in Bulgaria and some interconnections.** Problems of Geography, 3, 2020, 136-143.

[http://geoproblems.eu/wp-content/uploads/2020/12/2020\\_3/7\\_botev.pdf](http://geoproblems.eu/wp-content/uploads/2020/12/2020_3/7_botev.pdf)

Jelev, G., D. Stefanova, P. Stefanov, D. Bonev, Al. Stoyanova, D. Cholakova. **GIS research project on karst in Bulgaria.** Annual of Natural Sciences Department 2018–2019, 2020, 52-57. (in Bulgarian)

<https://naturalsciences.nbu.bg/bg/godishnik-na-departament-prirodni-nauki>

Turek K., P. Stefanov, H. Orčíková. **Screening of Rn concentration in Bulgarian show caves.** SocioBrains, 66, 2020, 17-31.

[http://sociobrains.com/MANUAL\\_DIR/SocioBrains/Issue%2066,%20February%202020/Section%20Geographical%20Education/1\\_%20Karel%20Turek,%20Petar%20Stefanov,%20Hana%20Orčíková.pdf](http://sociobrains.com/MANUAL_DIR/SocioBrains/Issue%2066,%20February%202020/Section%20Geographical%20Education/1_%20Karel%20Turek,%20Petar%20Stefanov,%20Hana%20Orčíková.pdf)

Stefanova D., P. Stefanov. **Fourth International Competition "Karst under protection – gift for the future generations" `2019: results and conclusions.** SocioBrains, 66, 2020, 180-198. (in Bulgarian)

[http://sociobrains.com/MANUAL\\_DIR/SocioBrains/Issue%2066,%20February%202020/Natural%20Geography/10\\_%20Dilyana%20Stefanova,%20Petar%20Stefanov.pdf](http://sociobrains.com/MANUAL_DIR/SocioBrains/Issue%2066,%20February%202020/Natural%20Geography/10_%20Dilyana%20Stefanova,%20Petar%20Stefanov.pdf)

Stefanova D., P. Stefanov. **Administration and management of tourist caves in Bulgaria.** SocioBrains, 54, 2019, 411-429. (in Bulgarian)

[http://sociobrains.com/MANUAL\\_DIR/SocioBrains/Issue%2054,%20February%202019/Section%20Human%20Geography,%20Regional%20Development%20and%20Tourism\\_/23\\_%20DILYANA%20STEFANOVA,%20PETAR%20STEFANOV.pdf](http://sociobrains.com/MANUAL_DIR/SocioBrains/Issue%2054,%20February%202019/Section%20Human%20Geography,%20Regional%20Development%20and%20Tourism_/23_%20DILYANA%20STEFANOVA,%20PETAR%20STEFANOV.pdf)

Stefanov P., D. Stefanova. **Innovative education for/through karst.** SocioBrains, 54, 2019, 600-627. (in Bulgarian).

[http://sociobrains.com/MANUAL\\_DIR/SocioBrains/Issue%2054,%20February%202019/РедакцияМовейИзтрий%20Section%20Geographical%20Education/11\\_%20PETAR%20STEFANOV,%20DILYANA%20STEFANOVA.pdf](http://sociobrains.com/MANUAL_DIR/SocioBrains/Issue%2054,%20February%202019/РедакцияМовейИзтрий%20Section%20Geographical%20Education/11_%20PETAR%20STEFANOV,%20DILYANA%20STEFANOVA.pdf)

Andrejczuk, W., P. Stefanow. **Podstawowe zasady ochrony krajobrazu krasowego i jaskiń.** Acta Geographica Silesiana, 11/1(25), WNoZ UŚ, Sosnowiec, 2017, s. 5–10 (in Polish)

[http://www.ags.wnoz.us.edu.pl/download/wydawnictwa/ags/ags\\_25\\_2.pdf](http://www.ags.wnoz.us.edu.pl/download/wydawnictwa/ags/ags_25_2.pdf)

Turek, K., P. Stefanov, I. Svetlik, H. Orcikova, P. Simek. **Radon and CO<sub>2</sub> concentration screening in Bulgarian caves.** International Journal of Geoheritage, Darswin Publishing House, 2015, 3(2): 14-23.

[https://www.researchgate.net/publication/332809691\\_Radon\\_and\\_CO\\_2\\_concentration\\_screening\\_in\\_Bulgarian\\_caves](https://www.researchgate.net/publication/332809691_Radon_and_CO_2_concentration_screening_in_Bulgarian_caves)

- Stefanov, P. **Protected karst territories: Lifelong Learning**. International Journal of Geoheritage, Darswin Publishing House, 2015, 3(2): i-vi Available at: <http://www.darswin.com/dw/Journals/ijg/Volume-4.htm>
- Briestenský, M., M. D. Rowberry, J. Stemberk, P. Stefanov, J. Vozár, S. Šebela, L. Petro, P. Bella, L. Gaal. **Evidence of a tectonic pressure pulse provided by the monitoring of aseismic transient deformations in the Balkan Peninsula and elsewhere on the Eurasian Plate**. Geol. Carpathica, October 2015, 66, 5: 427-438. <http://www.geologicacarpatica.com/browse-journal/volumes/66-5/>
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Stefanov, P., M. Iliev. **Preliminary results from the experimental development of underground karst cadastre (as exemplified by the Zandana cave in the Shumen plateau)**. In: Proceedings of the eight National conference on speleology (11-13 October 2002, Stara Zagora), Stara Zagora, 2004, p. 64-71 (in Bulgarian)

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- Mikhova, D., P. Stefanov. **Cartographic modeling of natural systems with GIS (on the example of karst geosystem).** - In: Sat. Reports "Geography '94", 1995, 68-76. (in Bulgarian)

Popular Science publications: Total 144

## EDITORIAL ACTIVITY

- International Scientific-practical conference "Protected karst territories – Education and Training"** (September 23-26, 2015, Sofia, Bulgaria) – Proceedings, NIGGG-BAS, Ed. "Ter-ART", Sofia, 2015, 163 p. - Editors: P. Stefanov, D. Stefanova
- International competition "Karst under protection – gift for the future generations" (2005, 2012) Exhibition Catalog** UNESCO, Ed. "Ter-ART", Sofia, 2014, 36 p. - Compiler-Editor
- Management travnich porostu krasovych oblasti** (Sbornik mezinarodni conference, Chata Macocha 16-18.9.2009), MZLU - Brno, 2009, 80 p. - Member of the editorial Scientific committee and editor of the Bulgarian reports in the collection
- GEOgraphy'21** Magazine (scientific-methodological description) of the Main editorial office for pedagogical publications of the Bulgarian Ministry of Science and Education, Nr. 1-6: 2006-2011 (total: 36 issues in 34 books) – Editor
- Geographic Education** Magazine (scientific-methodological description) of the Main editorial office for pedagogical publications of the Bulgarian Ministry of Science and Education, Nr. 1-6: 2003-2005 (total: 18 issues in 15 books) – Editor
- Krastev, T., T. Krasteva. **The Paleokarst and Kaolin deposits in North East Bulgaria.** Karst research publications of the Foundation Center of Karstology "Vladimir Popov", Ed. "TerART", Sofia, 2003, 240 p. (in Bulgarian) – Editor
- Collections of reports from a Scientific Conference with International Participation in Memory of Prof. D. Yaranov** (September 9-12, 2002, Varna, Bulgaria). Sofia, Ed. "Ter-ART", 2002, V.1, 398 p.; V.2, 442 p.; V.3, 398 p. - Editor
- Encyclopedia "Pirin Region", V. 1.** "Encyclopedia" Publ. House, Blagoevgrad, 1994, 608 p. (in Bulgarian) - Editor of the "Dabrash" part

**PARTICIPATION IN  
SCIENTIFIC FORUMS**

**Total: 74**, including 47 in Bulgaria and 27 abroad (Italy, Cuba, China, Japan, Greece, Turkey, Romania, Serbia, Austria, Poland, Czech Republic, Malta)

## Member of Committees

**Scientific Conference with International Participation in Memory of Prof. Dimitar Yaranov** (September 9-12, 2002, Varna, Bulgaria) - Secretary of the organizing committee

**International Scientific Conference "Protected Karst Territories – Conditions, Problems, Perspectives" (ProKARSTerra`2005**, October 18-21, 2005, Shumen, Bulgaria) - Forum coordinator. <http://prokarstterra.bas.bg/forum2005/>

**International conference „Management Travnich porostu krasovych oblasti”** (16.9-18.9.2009, Chata Macoha, Czech Republic) - Member of the Scientific committee

**International Scientific and Practical Conference „Protected Karst Territories – Monitoring and Management (ProKARSTerra`2012**, September 16-24, 2012, Shumen, Bulgaria) – Chairman <http://prokarstterra.bas.bg/forum2012/>

**Forum “ProKARSTerra`2014”** (June 2, 2014, Central Office of BAS - within the Jubilee Program “145 years of BAS”) - Chairman

**International Scientific and Practical Conference „Protected Karst Territories – Education and Training (ProKARSTerra`2015**, September 23-26, 2015, Sofia, Bulgaria) – Chairman <http://prokarstterra.bas.bg/forum2015/>

**International Scientific and Practical Conference „Protected Karst Territories - Legislation, Tourism, Monitoring (ProKARSTerra`2019**, 29 September – 2 October 2019, Sofia, Bulgaria) – Chairman <http://prokarstterra.bas.bg/forum2019/>

## Presented reports

A total of **180**, of which **53** published:  
Reports in Bulgaria: 142  
Reports exported abroad: 38

**Plenary reports:**

Stefanov, P. **Protected karst territories: state, problems and perspectives - announcement of the main topics**. International Scientific Conference "Protected Karst Territories – Conditions, Problems, Perspectives" (ProKARSTerra`2005, October 18-21, 2005, Shumen, Bulgaria)

Stefanov, P., M. Yordanova, D. Stefanova. **ProKARSTerra - Bridges to the Future**. International Scientific and Practical Conference „Protected Karst Territories – Monitoring and Management” (ProKARSTerra`2012, 16-24 September 2012, Shumen, Bulgaria).

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Stefanov, P., D. Stefanova: **Education strategy ProKARSTerra-Edu and its initiatives**. International scientific and practical conference „Protected Karst Territories – Education and Training” (ProKARSTerra`2015, September 23-26, 2015, Sofia, Bulgaria).

Tyc, A., P. Stefanov. **Profesor Marian Pulina – founder of the Polish-Bulgarian karst initiatives**. International scientific and practical conference „Protected Karst Territories – Education and Training” (ProKARSTerra`2015, September 23-26, 2015, Sofia, Bulgaria).

Stefanov, P., D. Stefanova. **Results of the Third edition of the International competition “Karst under protection – gift for the future generation”**. International scientific and practical conference „Protected Karst Territories – Education and Training” (ProKARSTerra`2015, September 23-26, 2015, Sofia, Bulgaria).

Stefanov P., V. Andreychouk, D. Stefanova. **Geosystem approach as a basis for sustainable development of karst territories in the context of Global changes**. International scientific and practical conference „Protected Karst Territories - Legislation, Tourism, Monitoring (ProKARSTerra`2019, 29 September – 2 October 2019, Sofia, Bulgaria)

Stefanov P., D. Stefanova. **10 years International scientific and the practical Network ProKARSTerra**. International scientific and practical conference „Protected Karst Territories - Legislation, Tourism, Monitoring (ProKARSTerra`2019, 29 September – 2 October 2019, Sofia, Bulgaria)

Stefanov P., D. Stefanova. **Specialized Education Strategy ProKARSTerra-Edu and its international initiatives**. International scientific and practical conference „Protected Karst Territories - Legislation, Tourism, Monitoring (ProKARSTerra`2019, 29 September – 2 October 2019, Sofia, Bulgaria)

Stefanova, D., P. Stefanov. **Results of the Fourth edition of the International competition “Karst under protection – gift for the future generation”**. International scientific and practical conference „Protected Karst Territories - Legislation, Tourism, Monitoring (ProKARSTerra`2019, 29 September – 2 October 2019, Sofia, Bulgaria)



**DEVELOPED  
SCIENTIFIC NETWORKS**

<http://www.prokarstterra.bas.bg/lab/sci-networks.html>:

- **International scientific-practical network ProKARSTerra** (based in the Experimental Laboratory of Karstology of NIGGG-BAS)  
Established in 2009, it maintains and expands the established international cooperation and partnership in various aspects of karstology.
- **BGSpeleo-RadNet** (based in the Experimental Laboratory of Karstology of NIGGG-BAS)  
Organized in 2011 to monitor 222-radon in Bulgarian caves. It is maintained jointly with the Department of Radiodosimetry of the Institute of Nuclear Physics of the Czech Academy of Sciences, Prague. The network provides databases in three scientific and applied directions:
  - natural radiation processes and contemporary karstogenesis;
  - connection between radon activity and tectonic-seismic activity;
  - radiation protection of the workers in the karst caves.
- **EU-TecNet** (European Tectonic monitoring Network) - based on the structure and mechanics of the AV ČR.  
It is built to monitor the slow tectonic movements along faults in caves. The Bulgarian partner is the Experimental Laboratory of Karstology (since 2012), which maintains extensometric monitoring in 5 caves (Saeva Dupka, Bacho Kiro, Biserna, Lepenitsa, Uhlovitsa) with a total of 7 TM-71 extensometers installed.

**DEVELOPED  
INFORMATION PRODUCTS**

WEB platform **ProKARSTerra** (<http://www.prokarstterra.bas.bg>) with **11** specialized sites:

- <http://www.prokarstterra.bas.bg/lab>
- <http://prokarstterra.bas.bg/forum2005>
- <http://prokarstterra.bas.bg/forum2012>
- <http://prokarstterra.bas.bg/forum2015>
- <http://prokarstterra.bas.bg/forum2019>
- <http://prokarstterra.bas.bg/ProKARSTerra-Edu>
- <http://prokarstterra.bas.bg/competition>
- <http://prokarstterra.bas.bg/travel-school>
- <http://prokarstterra.bas.bg/sci-competition>
- <http://www.prokarstterra.bas.bg/geo21>
- <http://www.prokarstterra.bas.bg/fni-2017/en>

**SCIENTIFIC  
ACHIEVEMENTS**

- Developed and applied in model areas the geosystem approach in karst research;
- Experimentally developed original scientific-methodical platform for karst research (ProKARSTerra paradigm);
- Experimentally developed model for Integrated Monitoring of Karst Geosystems (MIKS);
- Developed structural-functional models of karst geosystems representative for different types of karst in Bulgaria;
  - Scientific networks for instrumental monitoring in representative cave systems in Bulgaria, established in international partnership;
  - Developed models of the cave climate and the ventilation regime of representative cave systems;
  - Compound model for management of Protected Karst Territories;
  - Based on integrated monitoring in the Bulgarian show caves health risks are determined, calculated real effective doses of radon radiation and proposed measures for safe work of the workers in the caves;
  - Experimentally developed and tested in an international composition innovative educational forms for karst and through karst with application of interdisciplinary research methods and experiments in a real karst environment.

**SCIENTIFIC AWARDS**

- **Diploma** from IGU-CGE (Glasgow, 2004)
- **“Golden Bat”** of the Bulgarian Federation of Speleology (2009)
- **“Golden Bat”** of the Bulgarian Federation of Speleology (2019)



## EXPERT ACTIVITY:

### Expert reports

**The karst geosystem of Biserna Cave (Shumen Plateau National Park)** (2013, Head) - under the project "Structure and management of Shumen Plateau National Park" (Operational Program "Environment", beneficiary: Shumen Plateau National Park Directorate, contract D-1/22.02 2013)

**Thematic route "Karst under protection - gift for the future generations"** (2012, Head) - under the project "Shumen Plateau Nature Park - European Park for the Future" (Operational Program „Environment”, beneficiary: Shumen Plateau National Park Directorate, contract 02-02/02.07.2012)

**Preliminary design for monitoring of the Zandana (Bisserna) Cave in the Shumen Plateau National Park** (2009-2010, Head) - Assignor: Shumen Plateau National Park Directorate

**Complex studies of the Shumen plateau - section "Kyoshkovete"** (2001-2002, Head) - Assignor: Shumen Plateau National Park Directorate

**The karst waters of the Shumen plateau as a source for additional water supply of Brewery "Shumensko pivo"** (1996-1998, Head) - Assignor: "Shumensko pivo" EAD

**Hydrogeological study of the karst waters in the valley of the Kochanska River in connection with the water supply of the village of Kochan, Western Rhodopes** (1992, Head) - Assignor: VODPROEKT

**Geological, geophysical and hydrogeological research in the land of the village of Bregare, Pleven region** (1992, participant) - Assignor: Municipality Dolna Metropolia

**Geological and hydrogeological studies in the area between the rivers Vit, Chernyalka and Katuneshka, Pleven region** (1991, participant) - Assignor: ViK-Pleven

### Management plans for Protected areas

**Management plan of Shumen Plateau National Park:** Nature of Shumen Plateau National Park - sections Geographical location, Geology, Geomorphology, Hydrology, Climatology (2007) - Assignor: Shumen Plateau National Park Directorate

### Prepared expertises and opinions

A total of **28**, 26 of them in Bulgaria and 2 abroad

### Consulting assistance

A total of **16**, 14 of them in Bulgaria and 2 abroad

### Participation in public discussions

A total of **7**, including:

In a working meeting-discussion in the town of Shumen (February 19, 2016) in connection with the construction activities in the Biserna cave under the project "Structure and management of the Shumen Plateau National Park".

Public discussion of the Management Plan of the Shumen Plateau National Park (March 11-13, 2008, Shumen).

In the Committee on Environment and Water at the 40th National Assembly - on the draft law on caves.

Development of a draft law on caves in Bulgaria (2004) – assignor: Ministry of Environment and Water; contractor: Bulgarian Speleological Federation).

### Participation as an Expert in State institutions

Member (since 2019) of the Technical Committee "Ores and Rock Materials" (TC 55) of the **Bulgarian Institute for Standardization** (BDS) - with priority the newly established field of activity of TC 55 "Karst".

## EDUCATIONAL ACTIVITY

### Curriculum

Stefanov, P., D. Mikhova, M. Silyanova. **Curriculum of Geography for VIII Grade (Natural geography)**. Ministry of Education, Sofia, 1994

### Textbooks and Educational Materials

Stefanov, P., D. Mikhova, M. Silyanova. **Geography for 8<sup>th</sup> Grade** (Junior High School), Sofia: "K&M Publishing House, 1995, 144 p. [http://prokarstterra.bas.bg/sci-competition/bg/docs/Geography\\_TextBook\\_8Grade.pdf](http://prokarstterra.bas.bg/sci-competition/bg/docs/Geography_TextBook_8Grade.pdf)

Stefanov, P., I. Dushina, A. Letyagin. **Countour Maps with problems for 7<sup>th</sup> Grade**. – PH "Window" Ltd., Sofia 2001, 16 p.

**Head of Graduates** A total of **6** out of 2 Universities

**Scientific consultant for Doctoral students** A total of **4**, of which 3 full-time (2 defended) and 1 part-time (deducted with the right to defense)

**Conducted Lectures** A total of **172 lectures** at **29 events**, of which:

- Public lectures: **11**, 6 of them in Bulgaria and 5 abroad
- Lectures for students: **8**, 2 of them in Bulgaria and 6 abroad
- Lectures at traveling seminars with foreign partners: **43** lectures at 4 seminars
- Lectures in field training of students and teachers: 110 lectures in **7** teaching forms, incl. 55 lectures to international teams of trainees.

**Organized art Competitions and Scientific competitions**

**International:**

- International competition for students "**Karst - the last white spot on the planet Earth**" (under the auspices of UNESCO) - first edition August 4-9, 2019, Teteven (<http://prokarstterra.bas.bg/sci-competition>)
- International competition "**Karst under protection - gift for the future generations**" (under the auspices of UNESCO) - 4 editions: 2005, 2012, 2015, 2019 (<http://prokarstterra.bas.bg/sci-competition>)

**National** (<http://www.prokarstterra.bas.bg/geo21>):

- "Natural and cultural heritage of my home place" (2007) - "GEOgraphy` 21" magazine together with the Local History Society" II. Gabrovski, Gabrovo
- "Along the tracks of time" (2006) - "GEOgraphy` 21" magazine together with the National Polytechnic Museum
- "Our Route" (2004-2005) – "Geography Training" magazine together with Bulgarian Tourist Union
- "Caves - an exciting world" (2004-2005) - "Geography Training" magazine together with Tourist company "Samena Gora", Stara Zagora
- "Our Homeland" (2003) - in the framework of an International poster competition dedicated to the XXX World Geographic Congress in Glasgow, Scotland, 2004.
- "100 national tourist sites" (2003-2004) - "Geography Training" magazine together with "Cartography" Ltd.

**Organized Exhibitions**

A total of **22**, including:

- Specialized stand "Karst - terra incognita of the XXI century. And what is karst?" of the Sofia Science Festival (May 10-13, 2018, Sofia Tech Park), organized by the British Council.
- Specialized stand "ProKARSTerra" - in the program of the Children's Holiday, organized by the Directorate of Vitosha Nature Park in the Children's Ecostation "White Birches" (June 1, 2018).
- International competition "Karst under protection - a gift for generations" - 6 exhibitions in Bulgaria (2005-2019) with awarded works from the competition.
- Specialized exhibition ProKARSTerra (June 2-6, 2014, Central Office of BAS - within the Jubilee Program 145 years of the Bulgarian Academy of Sciences)
- Competition of IGU "My homeland" - the exhibition of posters (12-30.10.2004, National Museum "Earth and People", Sofia; 10-30.12.2004 Stara Zagora)
- Exposition "Prof. Dimitar Yaranov - life and activity (14.12.2002 - 14.01.2003, National Museum "Earth and People") - dedicated to the 40th anniversary of the death of Prof. Dimitar Yaranov.

**Developed Educational initiatives**

**Specialized educational strategy ProKARSTerra-Edu** (P. Stefanov, D. Stefanova) with international educational initiatives under the aegis of UNESCO:

- **International competition "Karst under protection - a gift for generations"** (with four editions: 2005, 2012, 2015 and 2019)
- **Traveling school for karst** (with 2 editions: 2015 and 2017)
- **International competition for students "Karst - the last white spot "on the planet Earth"** (first edition in 2019)
- **International Year of Karst** (proposed in 2012)
- **International Karstology Olympiad (IKO)** (proposal from 2019)
- **"GIS in classroom"** (P. Stefanov, D. Mihova and D. Stefanova) - deposited as a project in the Ministry of Education and Science in 2005)

- **"Let's learn how to explore the world together"** - a movement for expeditionary activities of international student teams - (deposited in the CGE of IGU in 2004)
- **Outsourced/field block training of students in natural sciences** (proposed in 1992)  
([http://sociobrains.com/website/w1465/file/repository/10\\_Petar\\_Stefanov.pdf](http://sociobrains.com/website/w1465/file/repository/10_Petar_Stefanov.pdf))

**PARTICIPATION IN  
PUBLIC ORGANIZATIONS  
(NGO)**

**Foundation Professor Dimitar Yaranov** (since 2002)  
**Foundation Center of Karstology "Vladimir Popov"** – Founder and Executive  
Director (since 1998)

Updated: **May, 2021**