



## **Corr. Memb. DSc Plamen Borisov Mirchev**

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Google Scholar – Plamen Mirchev

**Date and birth place:** 29 November 1950, Sofia

**Research interests:** Forest Entomology, Forest Protection, *Thaumetopoea* spp., Biodiversity, Parasitoids, Biological Control

### **Education:**

2005: DSc in Forest Protection, Forest Research Institute, BAS, Thesis: „Egg parasitoids on pine processionary moth *Thaumetopoea pityocampa* (Den. & Schiff.) (Lepidoptera: Thaumetopoeidae) in countries of Balkan Peninsula“

1986: PhD in Forest Protection, Forest Research Institute, BAS, Thesis: „Investigation on pathogenetic microorganisms which influence on density of gypsy moth *Lymantria dispar* L. in Bulgaria“

1976: MSc in forestry Higher Institute of Forestry - Sofia

### **Training:**

1984: Czechoslovakia

1989: Poland

### **Employment:**

2007-present: Corresponding Members of Bulgarian Academy of Science

2006-2014: Professor, Forest Research Institute, BAS

1990-2006: Associate Professor, Forest Research Institute, BAS

1977-1990: Assistant Professor, Forest Research Institute, BAS

1977: Forest Engineer, State Forestry Hvoyna

### **Administrative responsibilities:**

2004-present: Head of Department „Forest entomology, phytopathology and game fauna“, Forest Research Institute, BAS

1993-2004: Scientific secretary of the Scientific Council of the Forest Research Institute, BAS

2015-present: Member of Department of Agrarian and Forestry Sciences, BAS

2016-present: Scientific secretary of Department of Agrarian and Forestry Sciences, BAS

1993-present: Member of of the Scientific Council of the Forest Research Institute, BAS

2010: Member of Scientific Committee on Agronomy and Forestry, Higher Attestation Commission,

2011: Member of Advisory Scientific Council in the field of Biodiversity, Bioresources and Ecology, BAS.

1997: Member of Forest Protection Advisory Board, Regional Forest Directorate Shumen.

2012-2016: Chair of Department of 'Forestry sciences' Union of Scientists in Bulgaria

2018-present: Chair of Ethics Committee, Union of Scientists in Bulgaria

2012-2020: Member of General Assembly of the Scientists of BAS

2012-2020: Vice-Chairman of the Academic Property Commission of General Assembly of the Scientists of BAS

2012-2016: Chair of General Assembly of the Scientists of FRI-BAS

2010: Acting Director of the Forest Research Institute, BAS

1992-present: Member of the Board of Council of the Bulgarian Entomological Society

### **Participation in expert councils and commissions:**

1985-present: National Commission on Forest Protection

**Teaching Experience:**

1980-1981: Part-time assistant of the University of Forestry – Sofia

**Training students:**

2015: Supervisor of two PhD students, Forest Research Institute, BAS, Sofia

**Membership in scientific organisations:** Union of Scientists in Bulgaria, Bulgarian Entomological Society

**Publications:** 266 papers published. The list of selected publications for last five years:

- Georgiev G, Tabaković-Tošić M, Georgieva M, **Mirchev P** (2019) *Lymantria dispar* mortality in pupal stage caused by *Entomophaga maimaiga* in Bulgaria and Serbia. *Topola* 293: 71-78.
- Mirchev P**, Georgieva M, Zaemdzhikova G, Matova M, Hlebarska S, Filipova E, Georgiev G (2019) Phenological form diversity of *Thaumetopoea pityocampa* in Bulgaria. *Topola* 203: 65-69.
- Dimitrov S, Georgiev G, **Mirchev P**, Georgieva M, Iliev M, Doychev D, Bencheva S, Zaemdzhikova G, Zaphirov N (2019) Integrated model of application of remote sensing and field investigations for sanitary status assessment of forest stands in two reserves in West Balkan Range, Bulgaria. *Proceedings of SPIE* 11174: 1117404. doi: 10.1117/12.2532313.
- Georgieva M, Nedjalkov D, Georgiev G, Matova M, Zaemdzhikova G, Petkov P, **Mirchev P** (2019) Monitoring of health status of *Quercus cerris* L. in the Eastern Balkan Range and the Ludogorie (Bulgaria). *Annual of Sofia University "St. Kliment Ohridski" Faculty of Biology, Book 4 - Scientific Sessions of the Faculty of Biology* 104: 154-165.
- Georgieva M, Georgiev G, **Mirchev P**, Filipova E (2019) Monitoring on appearance and spread of harmful invasive pathogens and pests in Belasitsa Mountain. – In *Proceeding: X International Agricultural Symposium "AGROSYM 2019", 1890-1895*.
- Georgieva M, **Mirchev P**, Georgiev G, Zaemdzhikova G, Matova M, Filipova E, Petkov P (2019) Health status of pine stands observed in the extensive monitoring network in Bulgaria. – In: *X International Agricultural Symposium "AGROSYM 2019", 1896-1903*.
- Georgieva M, Zaemdzhikova G, **Mirchev P**, Georgiev G (2019) Larval hatching period and dynamics of *Thaumetopoea pityocampa* summer phenological form in the Eastern Rhodopes, Bulgaria. *Forestry Ideas* 25, 2 (58): 451-458.
- Mirchev P**, Georgiev G, Georgieva M, Matova M, Zaemdzhikova G (2018) Enlargement of pine processionary moth (*Thaumetopoea pityocampa*) range in Bulgaria. *Forest Review* 48 (1): 4-7.
- Dimitrov S, Georgiev G, Georgieva M, Glushkova M, Chepishcheva V, **Mirchev P**, Zhiyanski M (2018) Integrated assessment of urban green infrastructure condition in Karlovo region by in-situ observations and remote sensing. *One ecosystem* 3: e21610. <https://doi.org/10.3897/oneeco.3.e21610>.
- Simov N, Grozeva S, Langourov M, Georgieva M, **Mirchev P**, Georgiev G (2018) Rapid expansion of the Oak lace bug *Corythucha arcuata* (Say, 1832) (Hemiptera: Tingidae) in Bulgaria. *Historia naturalis bulgarica* 27: 51-55.
- Georgieva M, Bocheva L, **Mirchev P**, Tsankov G, Matova M, Zaemdzhikova G, Hlebarska S, Georgiev G (2018) Fecundity and egg abortion in two phenological forms of pine processionary moth (*Thaumetopoea pityocampa*) in Bulgaria. *Silva balcanica* 19 (1): 79-88.
- Mirchev P**, Georgiev G, Tsankov G, Georgieva M, Zaemdzhikova G, Matova M (2018) Assessing pine processionary moth (*Thaumetopoea pityocampa*) unfertilized eggs in different localities in Bulgaria. *Forest Science* 1: 69-76.
- Zaemdzhikova G, Markoff I, **Mirchev P**, Georgiev G, Georgieva M, Nachev R, Zaiakova M, Dobreva M (2018) Zone and rate of pine processionary moth (*Thaumetopoea pityocampa*) expansion in Bulgaria. *Silva balcanica* 19 (3): 13-20.

- Pilarska P, Georgiev G, Dobрева M, Takov D, **Mirchev P**, Doychev D, Georgieva M, Nachev R, Dermendzhiev P, Draganova S, Linde A, Hajek A E (2018) Pathogens and parasitoids of forest pest insects in the region of Forest protection station Plovdiv during the period 1990 - 2017. *Silva balcanica* 19 (3): 41-49.
- Boyadzhiev P, **Mirchev P**, Georgiev G (2017) Species of the Genus *Ooencyrtus* Ashmead, 1900 (Hymenoptera: Encyrtidae), Egg Parasitoids of *Thaumetopoea solitaria* (Lepidoptera: Notodontidae) in Bulgaria. *Acta zoologica bulgarica*, Supplement 8: 107-112.
- Mirchev P**, Georgiev G, Georgieva M, Boyadzhiev P (2017) Structure of egg clusters and egg parasitism characteristics of *Thaumetopoea solitaria* (Freyer) (Lepidoptera: Notodontidae) in The Eastern Rhodopes, Bulgaria. *Silva balcanica* 18 (1): 41-52.
- Mirchev P**, Georgiev G, Tsankov G (2017) Long-term studies on egg parasitoids of pine processionary moth (*Thaumetopoea pityocampa*) in a new locality in Bulgaria. *Journal of the Research Entomological Society* 19 (3): 15-25.
- Georgiev G, Georgieva M, **Mirchev P**, Zhiyanski M (2017) Main insect pests and fungal pathogens on tree and shrub vegetation in urban ecosystems. Hlorind Ltd., 54 pp. ISBN:978-619-7228-04-5.
- Pilarska D, Hajek A E, Keena M, Linde A, Kereselidze M, Georgiev G, Georgieva M, **Mirchev P**, Takov D, Draganova S. 2016. Susceptibility of nun moth, *Lymantria monacha*, larvae to the entomopathogenic fungus *Entomophaga maimaiga* under laboratory and field conditions. *Acta zoologica bulgarica* 68 (1): 117-126.
- Doychev D, Kechev M, Todorov I, **Mirchev P**, Bencheva S, Georgiev G (2016) New entomophagous enemies of *Ips typographus* (Linnaeus) (Coleoptera: Curculionidae) in Bulgaria. *Acta zoologica bulgarica* 68 (1): 131-134.
- Pilarska D, Georgiev G, Golemansky V, Pilarski P, **Mirchev P**, Georgieva M, Tabaković-Tošić M, Todorov M, Takov D, Pernek M, Hrasovec B, Milotic M, Dautbasic M, Mujezinovic O, Naceski S, Papazova-Anakieva I, Matova M, Vafeidis P (2016) *Entomophaga maimaiga* (Entomophthorales: Entomophthoraceae) in Balkan Peninsula – an overview. *Silva balcanica* 17 (1): 31-40.
- Mirchev P**, Georgiev G, Georgieva M, Bocheva L (2016) Impact of low temperatures on pine processionary moth (*Thaumetopoea pityocampa*) larval survival in Bulgaria. *Silva balcanica* 17 (1): 51-58.
- Roques A, Rousset J, Avci M, Avtzis D N, Basso A, Battisti A, Ben Jamaa M L, Bensidi A, Berardi L, Berretima W, Branco M, Chakali G, Çota E, Dautbašić M, Delb H, El Alaoui El Fels M A, El Mercht S, El Mokhefi M, Forster B, Garcia J, Georgiev G, Glavendekić M M, Goussard F, Halbig P, Henke L, Hernández R, Hódar J A, İpekdal K, Jurc M, Klimetzek D, Laparie M, Larsson S, Mateus E, Matošević D, Meier F, Mendel Z, Meurisse N, Mihajlović L, **Mirchev P**, Naseski S, Nussbaumer C, Paiva M-R, Papazova I, Pino J, Podlesnik J, Poirot J, Protasov A, Rahim N, Peña G S, Santos H, Sauvard D, Schopf A, Simonato M, Tsankov G, Wagenhoff E, Yart A, Zamora R, Zamoum M, Robinet C (2015) Climate Warming and Past and Present Distribution of the Processionary Moths (*Thaumetopoea* spp.) in Europe, Asia Minor and North Africa. – In: Roques A (Ed.). *Processionary Moths and Climate Change: An Update*. Springer, pp. 81-161.
- Boyadzhiev P, Dautbasic M, Mujezinovic O, **Mirchev P**, Georgiev G, Georgieva M (2015) *Baryscapus transversalis* Graham (Hymenoptera: Eulophidae) – a new species for the fauna of Bosnia and Herzegovina. *Šumarski list* 1-2: 69-71.
- Georgiev G, **Mirchev P**, Georgieva M, Boyadzhiev P, Trencheva K (2015) *Epidiaspis gennadii* (Hemiptera: Diaspididae) – a new host of *Zaomma lambinus* (Hymenoptera: Encyrtidae). *Silva balcanica* 16 (1): 105-107.
- Mirchev P**, Dautbašić M, Mujezinović O, Georgiev G, Georgieva M, Boyadzhiev P (2015) Structure of egg batches, hatching rate and egg parasitoids of *Thaumetopoea pityocampa* in Bosnia and Herzegovina. *Acta zoologica bulgarica* 67 (4): 579-586.
- Mirchev P**, Georgiev G, Boyadzhiev P (2015) Comparative studies on egg parasitoids of pine processionary moth (*Thaumetopoea pityocampa*) in a 20-year period. *Forest Science* 2: 105-114.

**Research projects:** Coordinator or participant in more than 50 national and international research projects. The projects for the last 5 years are listed below:

- Structural and functional characteristics and perspectives for the use of endemic relict coniferous communities in the changing climate in Bulgaria. Beneficiary: IBER-BAS. Funded by National Science Fund of Bulgaria. 2019-2022. Project Leader: Prof. DSc Tsvetomir Denchev.
- Using of UAS for health status assessment of forest stands in Southwestern Bulgaria. Funded by Southwestern State Enterprise - Blagoevgrad. 2020-2023. Project Leader: Ass. Sevdalin Belilov.
- Common cross-border policies for forestry protection (FORPRO). Lead Beneficiary: Regional Forest Directorate – Kardzhali. Funded by Cooperation Programme “INTERREG V-A Greece-Bulgaria 2014-2020”, the European Regional Development Fund (ERDF) and the national budgets of Greece and Bulgaria. 2017-2019. Project Leader for FRI: Prof. DSc Georgi Georgiev.
- Monitoring of xylophagous insects on the spruce, fir and Scots pine in the stands affected by the 2018 windstorm and the development of measures to reduce their numbers. Funded by South-Central State Enterprise - Smolyan. 2018-2021. Project Leader: Prof. DSc Georgi Georgiev.
- National Scientific Program ‘Environmental Protection and Reduction of the Risk of Adverse Events and Natural Disasters’. WP 1.1.4. Impact of climate change on forest ecosystems and adaptation measures. Assignor Ministry of Education and Science: 2018-2023. Project Leader: Prof. Dr. Margarita Georgieva.
- International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests operating under the UNECE Convention on Long-range Transboundary Air Pollutions: ICP Forests of EU program. 2000-2020. Project Leaders: Prof. DSc Pl. Mirchev, Prof. Dr E. Pavlova.
- Control and validation of the results of performed analyzes and studies of the species and natural habitats in Bulgaria, subject to reporting under Article 17 of the Habitats Directive and Article 12 of the Birds Directive. Funded by Executive Environment Agency. 2019-2020. Project Leader: Prof. Dr. Miglena Zhiyanski.
- Expansion of pine processionary moth (*Thaumetopoea pityocampa* (Denis & Schiffermüller, 1775) (Lepidoptera, Thaumetopoeidae) in Bulgaria – a dangerous allergen and economical important pest in the pine ecosystems. Funded by National Science Fund of Bulgaria. 2017-2020. Project Leader: Prof. DSc Pl. Mirchev.
- Standardizing automated large-scale monitoring to understand atypic phenologies at both ends (France and Bulgaria) of the climate-driven expansion front of a European urticating pest, the pine processionary moth. Funded by National Science Fund of Bulgaria. 2017-2019. Project Leader: Prof. DSc Pl. Mirchev.
- Toward better UNDERstanding the Ecosystem Services in URBan environments trough assessment and mapping (TUNES in URB). Funded by FM of EEA 2009-2014, Programme BG03 Biodiversity and ecosystems .2015-2017. Project Leader: Prof. Dr. Miglena Zhiyanski.