



Assoc. Prof. Dr. Ivailo Ivanov Markoff

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Date and birth place: 02 October 1953, Sofia., Bulgaria

Research interests: Mathematical modeling – forest growth – forest biometry –forest planning
–forest economy – monetary appraisal of forests

Education:

1980: MS in Applied Mathematics, Technical University, Sofia, Diploma № 604 / 15.04.1980

1982: MS in Computer Science, Technical University, Sofia, Diploma № 38738 / 02.02.1982

2017: PhD in Forest Management and Forest inventory, Forest Research Institute, BAS, Thesis:
„Logging productivity standards and planning “

Training:

1995: 10-month internship at CEMAGREF, France

Employment:

2018 – present: Associate Professor, Forest Institute, 132 Kliment Ohridski Blvd., Sofia.

1994 – 2017: Chief Assistant, Forest Institute, 132 Kliment Ohridski Blvd., Sofia.

1990-1994: Research Associate I degree, Head of Development Group, Agrolesproekt, 10 Sofroniy Vrachanski Str.

1989: Research Associate II degree, Balkancar-Progress Institute

1981-1989: Designer, Head of Electronic Data Processing Unit, Agrolesproekt, 10 Sofroniy Vrachanski Str.

Administrative responsibilities:

2019-present: Head of the Department of Forestry and Forest Resources Management at the Forest Research Institute at the Bulgarian Academy of Sciences in Sofia

Participation in expert councils and commissions:

2000-2006: National Commission on Forest Valuation

Teaching Experience:

1998-1999: Part-time assistant of the University of Forestry – Sofia, lections in Monetary Valuation of Forests

Training students:

2020-present: Supervisor of three PhD students, Forest Research Institute, BAS, Sofia

Membership in scientific organisations: Union of Scientists in Bulgaria

Publications: Nine books and 141 papers published (over 59 in peer-reviewed journals). The list of selected publications for the last five years:

- Markoff I**, Georgieva D, Popov G, Paligorov I (2020) Market valuation of forest properties with construction perspective. *Forest Science* 56 (1): 75-85. (in Bulgarian, English summary).
- Markoff I**, Popov G, Georgieva M, Dodev Y (2020) Climate change and its impact on the oak coppices in North Central Bulgaria. *Forest Science* 56 (2): 65-71.
- Dodev Y, Zhiyanski M, **Markoff I** (2020) Concept for sustainable management of Oriental hornbeam (*Carpinus orientalis* Mill.) forests in Bulgaria. *Austrian Journal of Forest Science* 1: 23-42.
- Markoff I**, Findeisen E (2019) Sustainable cut of oak coppices in Bulgaria. *WoodEMA* 12: 81-86.
- Markoff I** (2019) Monetary valuation of forest damage – a unified approach. *WoodEMA* 12: 339-345.
- Markoff I** (2018) Wood extraction with machines and animals - an analytical approach to time consumption models. *Silva Balcanica* 19 (1): 33-42.
- Stoeva L, Zhiyanski M, **Markoff I** (2018) National Forestry Accounting Plan of Bulgaria, including Forest Reference Levels for the period 2021-2025. Ministry of Environment and Water.
- Markoff I**, Setzer F, Georgieva D, Popov G (2017) Estimation of construction sites according to the prices of buildings. *Management and sustainable development*: 40-45.
- Markoff I**, Karamfilov K (2017) Preliminary estimation of the parameters of a national forest inventory in Bulgaria. *Forest science*, 52, 1-2: 83-102. (in Bulgarian, English summary).

Research projects: Coordinator or participant in more than 20 national and international research projects. The projects for the last 5 years are listed below:

- Transformation of conifer plantations created in the range of deciduous tree species in forests of natural seed origin. Funded by Ministry of Agriculture, Food and Forestry - Executive Forest Agency. 2013-2015. Project Leader: Assoc. Prof. Dr. Grud Popov.
- Improving the management of mountain forest ecosystems for the sustainable provision of ecosystem services in the context of climate change (MFORES). Funded by EEA Grants. 2015-2017. Project Leader: Assoc. Prof. Dr. Ivaylo Velichkov.
- Determination of silvicultural systems for management of coppice oak forests (including management objectives, methods of regeneration and tending) in the territory of the North-Central State Enterprise DP-Gabrovo. Funded by North-Central State Enterprise DP-Gabrovo-Ministry of Agriculture, Food and Forestry. 2017-2018. Project Leader: Assoc. Prof. Dr. Grud Popov.
- Development of a National Reporting Plan for the Forests, including determination of the reference level of the forests of Bulgaria for the period 2021-2025. Funded by the Ministry of Environment and Water. 2018-2018. Project Leader: Lora Stoeva.
- Forestry concept for sustainable management of Oriental hornbeam forests (*Carpinus orientalis* Mill.) On the territory of "Southwestern State Enterprise". Funded by Ministry of Agriculture, Food and Forestry - Southwestern State Enterprise. 2018-2018. Project Leader: Assist. Prof. Dr. Yonko Dodev.
- Collection, analysis and evaluation of forest data in order to apply the Gain-Loss method based on the balance between carbon gain and carbon loss, and developing a new calculation model for the calculation of emissions and sinks from the sector "Land use, land use change and forestry" (LULUF). Funded by Executive Environment Agency. 2018-2019. Project Leader: Prof. Dr. Miglena Zhiyanski.
- Protecting the environment and reducing the risk of adverse events and natural disasters. FP I.1.4 Impact of climate change on forest ecosystems. Funded by Ministry of Education and Science. 2018-2020. Project Leader: Prof. Dr. Margarita Georgieva.
- Inventory of greenhouse gases (GHG) from the sector "Land use, land use change and forestry" (LULUCF) and the relevant part of the National Report under the UNFCCC for 2018 and 2019 (for the reports in 2020 and 2021). Funded by Executive Environment Agency 2019-2021. Project Leader: Lora Stoeva.