



Prof. DSc Sotir Glushkov

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Scopus: <https://www.scopus.com/authid/detail.uri?authorId=14035325600>

Date and birth place: 28 February 1958, Peshtera, Pazardzhik District

Research interests: Forestry mechanization (forest nurseries and wood production), Extraction and processing of biomass from urban areas, Afforestation and seed production, Labor rationing, Forest transport, Technologies and machines for the production of wood chips, Composting, Arboristics

Education:

2010: Doctor of Technical Sciences in the scientific specialty "Technologies, mechanization and automation of forestry and timber extraction", with code 02.13.01., on: "Research and establishment of a seed production station for extraction of coniferous tree seeds"

1996: PhD in "Technologies, mechanization and automation of forestry and timber extraction", code 02.13.01., topic: "Research and creation of a sowing machine for uniform broad furrow sowing of white and black pine in forest nurseries"

1993-1994: Department of Business Administration, College of Business and Economics, University of Delaware, Advanced Management Program

1979-1984: Voronezh State Academy - Voronezh, Russia, Faculty of Forest Mechanics, Specialty "Machines and mechanisms of the forestry and woodworking industry", Qualification - Mechanical Engineer

The thesis is on: "Project for improvement of the furrow-forming bodies of a sowing machine for wide furrow sowing in forest nurseries and research and substantiation of their parameters"

Training:

1988: VNIILM Pushkino, Soviet Union, "Production of seedlings without diving" - bilateral exchange

2011: BOKU Vienna, Austria, "Extraction and processing of biomass from forest areas for energy purposes" - COST Action

Employment:

2016 - present: Professor, Department of Silviculture and Management of Forest Resources, Forest Research Institute, BAS

2001 - 2016: Associate Professor, Department of Silviculture and Management of Forest Resources, Forest Research Institute, BAS

Administrative responsibilities:

2016 - present: Deputy Chairman of the Board of PFC - Forest certification - Bulgaria

2002 - present: Member of the Scientific Council of the Forest Research Institute, BAS

Teaching Experience:

2004 - present - Courses for acquiring qualification for work with agricultural and forestry equipment (motor saws and shrub saws, tractors; cableways, cranes and jaw loaders, sawmills and belt saws, wood quality assessment), for arborists and for technicians - foresters.

Training students:

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

Membership in scientific organisations:

2006 – present: KWF – Kuratorium Waldarbeit und Forsttechnik – Deutschland

2009 – present: IUFRO - Unit 3.00.00 – Forest Operations engineering and Management

Publications

The list of selected publications for the last five years:

- Glushkov, S.,** P. Popikov, I. Chetverikova, D. Druchinin (2020) Reduction of dynamic loads on the hydraulic drive of forest boom lifter. *Forestry*, 2020, IOP Conf. Series: Earth and Environmental Science, Volume, 595 International Forestry Forum „Forest ecosystems, as global resource of the biosphere: calls, treats, solutions“, 23 October 2020, Voronezh, Russian Federation.
- Glushkov, S.** (2020) Simulator training for harvester and forwarder operators in Bulgaria. *Gora*, 1, 10.
- Glushkov, S.** (2020) History and experience in logging mechanization: the future is of harvester technology. *Gora*, 6/7, 9-12.
- Boyadzhiev, D., **S. Glushkov.** (2020) Study of the work of mountain harvesters in timber extraction in windthrow areas. *Forest Science* (in print).
- Boyadzhiev, D., **S. Glushkov,** V. Chakarov (2020) Theoretical basis for determining the optimal distance between the routes of the cable lines. *Forest Science*, 2, 169-186.
- Boyadzhiev, D., **S. Glushkov,** V. Chakarov (2019) The Cable Line: Determination of the optimal distance between the routes of the cable lines for environmentally friendly utilisation of wood. *Gora*, 10, 20-25.
- Boyadzhiev, D., **S. Glushkov,** L. Kovachev (2019) Deficiencies in the design of the forest road network in Bulgaria. *Gora*, 9, 17-21.
- Glushkov, S.,** E. Velizarova, S. Stoyanov, V. Chakarov, I. Markov, V. Tringovska (2018) Study of the work of small chopping machines for biomass extraction in urban environments. *Proceeding Papers: International Scientific Conference "90 years FRI-BAS for the society and nature"* 24-26 October, 2018, pp. 155-167.
- Glushkov, S.,** I. Markov, S. Stoyanov (2018) "Mechanized logging of dried white pine crops" *Proceeding Papers International Scientific Conference "90 years FRI-BAS for society and nature"*, October 24-26, 2018, 12.
- Glushkov, S.** (2018) Forest roads: Is the experience of the countries of Central Europe is applicable in our country? *Gora*, no. 9, pp. 8 - 11.
- Moskalik, T., S. Alexandru Borz, J. Dvorak, M. Ferencik, **S. Glushkov,** P. Muiste, A. Iazdins, O. Styranivsky (2017) Timber Harvesting Methods in Eastern European Countries: a Review, *Croatian Journal of Forest Engineering*, Volume 38, Issue 2, 231-241. ISSN: 1845-5719.
- Glushkov, S.,** Madzhov S., V. Tchakarov (2016) Clay houses in Bulgaria - Past, Present and Future. *Joint Conference Cost Action FP1303 "Performance of bio-based building materials Poznan University of Life Science*, Poland, 2016, ISBN: 978-83-943494-1-7, 33-34.
- Glushkov S.,** Madzhov, S., I. Markov, V. Chakarov (2016) Transportation of timber with a specialized forest tractor TAF. *Proceedings XXV International Scientific Conference for Young Scientists Blagoevgrad*, 2016, ISBN: 978-619-160-680-1, 181-186.
- Madzhov, S., **S. Glushkov,** I. Markov, S. Stoyanov, V. Chakarov (2016) Initial studies of the operation of the harvester / forwarder system in the felling of dried pine crops in the land of SFE Zemen. *Proceedings of the XXV International Scientific Conference "Management and Quality"* Yambol, 2016, ISBN: 978-619-160-679-5, 148-153.
- Stoyanov, S., I. Stoyanov, **S. Glushkov,** Madzhov, S., V. Chakarov (2016) Comparative evaluation of the work of famous brands of chainsaws in the logging industry of Bulgaria.

Proceedings XXV International Scientific Conference "Management and Quality" Yambol, 2016, ISBN: 978-619-160-679-5, 159-162.

Stoyanov, S., I. Stoyanov, **S. Glushkov**, S. Madzhov, V. Chakarov, I. Markov (2016) Study of the productivity of clean cutting of gasoline-powered saws with universal chains for cross-cutting wood. Proceedings XXV International Scientific Conference "Management and Quality" Yambol, 2016, ISBN: 978-619-160-679-5, 138-148.

Glushkov, S., Spinelli, R., Markov, I., Maganoti, N., Stoyanov, S., Chakarov, V., Madzhov S. (2015) Study of the productivity of a rotary chopping machine Biber - 70 in waste processing from wood processing and furniture construction. Science of the forest, vol. 2, Academic Publishing House "Prof. Marin Drinov, 2015, ISSN: 0861-007X, 89-105.

Glushkov, S., Spinelli, R., Markov, I., Maganoti, N., Stoyanov, S., Chakarov, V., Madzhov S. (2015) Investigation of industrial energy chips production with chipping machine BIBER 70. Forest Science, 1, 107-125.

Research projects:

The projects for the last 5 years are listed below:

- Study of the operation of medium-sized cableways in the export of timber on steep terrains 2017-2019.
- Composting of biomass from urban areas. 2017-2019.
- Basis of structural timber design - from research to standards COST Action FP1402. Funded by The European Cooperation in Science and Technology (COST). 2014-2019.
- Fire safe use of bio-based building products COST Action FP1404. Funded by The European Cooperation in Science and Technology (COST). 2014-2019.
- Innovative management and multifunctional utilization of traditional coppice forests - an answer to future ecological, economic and social challenges in the European forestry sector (EuroCoppice) COST Action FP1301. Funded by The European Cooperation in Science and Technology (COST). 2013-2017.
- Wood music COST Action FP1302. Funded by The European Cooperation in Science and Technology (COST). 2013-2017.
- Performance of bio-based building materials COST Action FP1303. Funded by The European Cooperation in Science and Technology (COST). 2013-2017.