

CURRICULUM VITAE - DIMOU VASILIKI

PERSONAL INFORMATION

First Name: Vasiliki
Surname: Dimou
Date of Birth: 19th May 1967
Nationality: Greek
Gender: Female

Contact Details:

Office: Demokriton University of Thrace (DUTH)
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EDUCATION

2002 PhD in Forest Technology, Department of Forestry-Geology-
Hydrology, TU Dresden, Germany.

1996 Bachelor of Science, Aristotle University of Thessaloniki, School of
Geotechnical Sciences, Department of Forestry and Natural
Environment.

1991 Bachelor of Science, Technological Educational Institute of Kavala,
Department of Forestry, Drama Annex.

Research Interests

Forest Products Harvesting and Forest Ergonomics

- Strategic decisions model, analysis of production systems, evaluation of wood harvesting systems
- Felling and skidding
- Economic aspects of timber harvesting
- Time studies, determination of forester remuneration based on time and work relationship
- Forest ergonomics (load management, noise, impact of vibrations on the human body, thermal stress, work performance & mental performance)

PROFESSIONAL EXPERIENCE

- 1997 – 1998: Adjoined Lecturer, Technological Educational Institute of Kavala, Department of Forestry, Drama Annex.
- 2005 – 2006: Adjoined Lecturer, Technological Educational Institute of Larisa, Department of Forestry, Karditsa Annex.
- 2005 – 2007: Adjoined Lecturer, Institute of Vocational Training (IEK), Drama.
- 2001 – 2007: Adjoined Lecturer, Technological Educational Institute of Kavala, Department of Forestry, Drama Annex.
- 2008 – 2013: Lecturer, Department of Forestry and Management of the Environment and Natural Resources, Demokrition University of Thrace (DUTH).
- 2008 – today: Assistant Professor, Department of Forestry and Management of the Environment and Natural Resources, Demokrition University of Thrace (DUTH).

TEACHING EXPERIENCE

A. Department of Forestry, Technological Educational Institute of Kavala (Kavala TEI).

Course titles: Forestry Appraisal; Surveying; Forest Botany; Forest Products Harvesting; Forest Timber Technology; Introduction to Forestry; Prevention of Forest Accidents; Seminar (laboratory course).

B. Department of Forestry, Technological Educational Institute of Larisa (Karditsa TEI).

Course titles: Forest Products Harvesting; Forest Timber Technology; Prevention of Forest Accidents;

C. Department of Forestry and Management of the Environment and Natural Resources, Demokrition University of Thrace (DUTH).

Taught courses – Undergraduate: Forest Products Harvesting; Planning and Organization of Timber Harvesting; Forest Engineering; Chemistry and Chemical Products of Wood; Wood Structure and Properties; Wood Technology; Wood Preservation and Improvement; Forest Ergonomics; Measurements and Classification of Unprocessed Timber.

Taught courses – Postgraduate: Forest Restoration and Rehabilitation; Forest Operations and Conservation of Soil Resources in Disturbed Ecosystems; Soil Restoration and Revegetation in Disturbed Areas.

Research Experience

A. Participation in Research Programmes / Projects

- Participation in the THALES programme. Research title: “Improvement of penetrability in impregnation resistant conifers by means of laser microhole drilling”.
- Participation in the ARCHIMEDES programme. Research title: “Sustainable constructions design in accordance with environmental and energy parameters”.
- Participation in the LIFE programme. Research title: “Restoration of degraded coniferous forests towards sustainable rehabilitation and climate change reduction”.

PUBLICATIONS

a. Books

- Dimou, V. (2011): *Measurement and Classification of Raw Timber*. University material. Demokriton University of Thrace editions.
- Dimou, V. (2010): *Timber Harvesting and Transportation*. Thessaloniki: Ant. Stamoulis eds.
- Dimou, V. (2008): *Timber Harvesting*. University material. Demokriton University of Thrace editions.
- Dimou, V. (2008): *Introduction to Forest Engineering*. Demokriton University of Thrace editions.

SCIENTIFIC PUBLICATIONS

1. Dimou, V., Tsaliki, A. 2020. Radial and longitudinal density variations in *Abies cephalonica* Loud and *Pinus halepensis* Mill. For. Sci. (under review).

2. Dimou, V., Kaziolas, D.N. 2020. Influence of Time of Harvesting on the some Mechanical Properties of *Fagus sylvatica L.* wood as a Construction Material. J.Eng. Sci. Tech. Rev. (under review).
3. Dimou, V., Molis B., Kitikidou, K. 2020. Evaluation of Musculoskeletal Disorders Risks in Forestry. Work. (under review).
4. Dimou, V., Chrisovalantis M., Chatzikosti V. 2020. Assessing chainsaw operators' exposure to wood dust during timber harvesting. SN. Applied Sciences . DOI: 10.1007/s42452-020-03735-6
5. Dimou, V., Malesios Ch., Pispas, S. 2020. Assessing forestry-related musculoskeletal symptoms in specific body areas. International Journal of Forest Engineering. Vol. 31 (3) p. 233-241. DOI:org/10.1080/14942119.2020.1789393.
6. Dimou, V., Malesios Ch., Pispas, S. 2020. Monitoring Self-Reported Musculoskeletal Symptoms in Forestry Operation. International Journal of Forest Engineering. Vol. 31 (2) p. 106-113. DOI:10.1080/14942119.2020.1745530.
7. Dimou, V., Symeonidou, M. 2019. Evaluating the effectiveness productivity of motor-manual felling with a catalytic chainsaw. Journal of International Scientific Publications, Materials, Methods & Technologies. Vol. 13 p. 187-198.
8. Dimou, V., Kantartzis, Ap., Malesios, Cr., Kasampalis, M. 2019. Research of Exhaust Emissions by Chainsaws with the use of a Portable Emission Measurement System. International Journal of Forest Engineering. Vol. 30, (3): p. 228-239. Doi. 10.1080/14942119.2019.1622318.
9. Dimou, V., Anezakis, V.-D., Demertzis, K., Iliadis, L. 2018. Comparative analysis of exhaust emissions caused by chainsaws with soft computing and statistical approaches. International Journal of Environmental Science and Technology. Vol. 15, (7): 2018 p. 1597-1608. DOI 10. 1007/s 13762-017-1555-0.
10. Dimou, V. 2017. Kolb's experiential learning model. (A proposal for application in wood harvesting systems. Pedagogical Discourse. Issue 1: p.79-96.
11. Dimou, V., Malivitsi, Zoe. 2015. Strategic decision model for the evaluation of timber harvesting systems. International Journal of Forest Engineering Vol. 26, (2): 2015 p. 146-157. DOI: 10.1080/14942119.2015.1083750 <

<http://dx.doi.org/10.1080/14942119.2015.1083750>

12. Dimou, V., Milios, E. 2015. Harvest – inflicted wounds on residual trees. Wood Research. Vol. 60, (6): 2015 p. 995-1004.
13. Dimou, V., Kaziolas, D., N., Zygomas, I., Avtzis, N. 2015. Influence of biotic factors on the mechanical properties of wood, taking into account the time of harvesting. Wood Material Science & Engineering. Vol. 12, (3): 2017 p. 140-148. < <http://dx.doi.org/10.1080/17480272.2015.1063004>.
14. Dimou, V. 2015. Noise measurement in work areas of timber processing industries. Geotechnical Scientific Vol.24-Issue II p. 57-65.
15. Dimou, V., Iliadis, L., S., Bougoudis, I. 2014. Computational intelligence modelling and assessment of industrial noise: the case of wood manufacturing. Engineering Intelligent Systems. Vol. 22, (3/4): 2014 p. 219-231.
16. Dimou, V. 2014. Noise Measurements in Timber Industries. Drvna Industrija. Vol. 65, (3): 2014 p. 243-249.
17. Dimou, V. 2012. Harvest-time related blue-stain spread in logs in the Forest of Elatia, Greece. Wood Research, Vol 57, (2): p.241-250.
18. Dimou, V. 2006. Evaluation of the harvesting and trading timber system by the forest co-operatives in accordance with the Presidential Decree 126/86. Forest Research, Issue (20): p. 11-22.
19. Dimou, V. 2006. Assessment of criteria of timber harvesting systems. Geotechnical Scientific Issues. Vol. 17, (II) p. 13-23.
20. Dimou, V. 2005. Appearance of spiral grain in the wood of spruce trees (*Picea excelsa* Link) in the Elatia Forest of Drama. Forest Research, Issue (18): p. 69-76.
21. Dimou, V. 2004. Social limitations when applying new timber extraction systems. Forest Research, Issue (17): p. 43-54.
22. Dimou, V. 2003. Forstwirtschaft in Nordost-Griechenland. Forst und Technik (8): p. 2-4.

1. Dimou, V. 2015. Damages from wood harvesting operations. *In Scientific Annals of the Department of Forestry and Management of the Environment and Natural Resources*. Volume VI. Biodiversity and Natural Environment, p.145-157.
2. Dimou, V. 2010. Decision making models and classification of wood harvesting systems: a contribution to the development of mountainous areas *Issues of Forestry and Management of the Environment and Natural Resources, Vol. II, Development of mountainous downgraded areas*. p. 245-254
3. Dimou, V. 2009. Timber Harvesting and Transportation in Greece. *Issues of Forestry and Management of the Environment and Natural Resources, Vol. I: Introduction to Forestry and Environmental Science*. p. 19-26.
4. Dimou, V. 2009. The importance of goals in wood harvesting practices. In *Scientific Annals of the Department of Forestry and Management of the Environment and Natural Resources*. Volume II, Dedicated to Professor Athanasios I. Karampinis, ex. President and Vice–Rector of DUTH. p. 249-260.

Peer-reviewed CONRERENCE PUBLICATIONS

1. Dimou, V., Symeonidou, M. 2019. Evaluating the effectiveness productivity of motor-manual felling with a catalytic chainsaw. 21st International Conference, Materials, Methods & Technologies. Burgas, Bulgaria 1-5 July 2019.
2. Dimou, V. 2013. Tree injuries due to felling and skidding *Picea Abies* logs. 16th Panhellenic Forestry Conference "Protection Management of Greek Forests in a Period of Economic Crisis and the Challenge of Natural Forestry", Thessaloniki, p. 566-576.
3. Dimou, V. 2012. Strategic Decision Model for the Evaluation of Timber Harvesting Systems as Applied in the Forests. 12th special Conference of the Hellenic Society for Business Research, 9th Meeting of Multi-Criteria Decision Analysis. Kavala p. 10-13
4. Dimou, V. 2012. Density Planting Methods and Tools. 2nd Agricultural Biotechnology Conference. Agricultural University of Athens. Poster
5. Dimou, V. 2009. Harvesting-time related blue-stain spread in the Forest of Elatia, Greece. 14th Panhellenic Forestry Conference "Ecological and Socioeconomic Restoration of Burnt Areas – Natural Environment Protection", Patra. p. 293-

302.

6. Dimou, V. 2003. Multi-variable evaluation of the timber harvesting systems and forestry works in Northeastern Greece, 11th Panhellenic Forestry Conference “Forest Policies – Coppice Forests – Natural Environment Protection”, Ancient. p. 293-302.
7. Dimou, V. 2000. Bewertung aktueller Holzernteverfahren für die Waldarbeit in Nordost Griechenland. Model zur Bewertung forstlicher Arbeitsverfahren. Proceedings of the Pan-European Conference "Forest Technology", Freising, Germany.

CONFERENCE – WORKSHOPS (WITHOUT peer-review)

1. Dimou, V. 2019. Labor Productivity of Short-wood system. Conference, "Carbon Mitigation in peri-urban Forest Ecosystems" Orestiada, 3/4/2019.
2. Dimou, V. 2010. Flora exploitation in Ancient Greece”, Dimou, V. Conference on issues of environmental policy and philosophy entitled “Natural Environment in Ancient Greece”, Orestiada. p. 47-58.

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

- Member of the Geotechnical Chamber of Greece since 1996
- Member of the Hellenic Forestry Society since 1997
- Member of the Panhellenic Association of Foresters since 1997