Dr hab. Teresa Kłosińska

CONTACT

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EDUCATION

Ocupational titles and science degrees	Date	Institution
Master of biology	1992	Faculty of Biology. Warsaw University
Doctor of forest sciences in field of forestry	2000	Faculty of Forestry. Warsaw University of Life Sciences – SGGW in Warsaw
D.Sc. certificate in the area of forestry	2019	Faculty of Wood Technology Warsaw University of Life Sciences

PROFESIONL COMPETENCE

Position	Date	Institution
Autonomous biologist	1993-1999	Department of Forest Zoology and Hunting. Faculty of Forestry. Warsaw University of Life Sciences – SGGW in Warsaw
Autonomous biologist	1999-2000	Department of Forest Protection and Ecology. Faculty of Forestry. Warsaw University of Life Sciences – SGGW in Warsaw
Assistant professor	2001-2019	Department of Wood Science and Wood Preservation Faculty of Wood Technology Warsaw University of Life Sciences - SGGW
Assistant professor (with habilitation)	2019 to now	Institute of Wood Sciences and Furniture Warsaw University of Life Sciences - SGGW

SELECTED CURRENT FUNCTIONS

- member of Polish Ethological Society

DIDACTIC

- the lectures: Wood Science (Anatomy)
- conducting trainings in microscopic and macroscopic recognition of various types of wood

SCIENCE

Science research:

- chemical composition of wood and other tree tissues;

- chemical and thermal wood modification;
- macroscopic and microscopic wood structure;
- use of trees in phytoremediation;
- the use of dendromass for energy generation;
- the influence of different environmental factors (biotic and abiotic) on the trees condition and on the quality of harvested wood

Research projects: :

- Project HESOFF (Hesoff Life 11 ENV/PL/459) European Oak Decline Phenomenon – monitoring and possible measures for mitigation". Project co-financed by European Commission (Program LIFE+) and by National Fund for Environmental Protection and Water Management (2014-2017);
- "Program doskonalenia dydaktyki SGGW w dziedzinie pozyskiwania surowców roślinnych dla energetyki w kontekście celów Strategii Europa 2020". Project financed by Operational Programme „Kapitał Ludzki", No UDA-POKL-04.03.00-00-042/12-00, Part 4 -scholarship and internship program (2014-2015);
- Project No 180606 WOODTECH,. „The use of poplar lines with increased growth of biomass and improved chemical composition of wood in paper and biofuel technology". Project financed by the National Centre for Research and Development (2013-2015
- Project No 504-06260017 "Comparison of nitrogen content in bark from forest deer habitat" 504-06260017, Project financed by Warsaw University of Life Sciences - SGGW (2007)

Cooperation:

- international: Department of Chemistry (Laboratory of Applied Chemistry), Jyväskylä University in Finland; Faculty of Biology at the University of Aberdeen (Scotland);Faculty of Wood Science and Technology at Technical University in Zvolen (Slovakia)
- Polish research laboratories: Forest Research Institute in Sękocin; Institute of Forest Sciences, Warsaw University of Life Sciences – SGGW

RESEARCH OFFER AND EXPERT ASSESSMENTS

- recognition of various wood species
- assessing suitability of different tree species for environmental remediation

SELECTED SCIENCE PUBLICATIONS FROM LAST 7 YEARS:

ORCID: **0000-0001-6538-2634**

Krzosek S., **Kłosińska T**., 2022: Giganten-wechsel in Europäische Sägeindustrie, Annals of Warsaw University of Life Sciences - SGGW Forestry and Wood Technology, 2022, No 117: 82-88. DOI 10.5604/01.3001.0015.9278.

Kłosińska T.,2021: American tulipwood (*Liriodendron tulipifera* L.) as an innovative material in CLT technology, Annals of Warsaw University of Life Sciences - SGGW Forestry and Wood Technology, 2021, No 115, 2021: 18-28. DOI:10.5604/01.3001.0015.3186.

Kłosińska T., 2021 : Wykorzystanie roślin drzewiastych w remediacji terenów zurbanizowanych, Sylwan, 2021, vol. 165, No. 10, 2021: 725-737. DOI:10.26202/sylwan.2021058

Krutul D., Radomski A., Antczak A., Drożdżek M., **Kłosińska T**., Szadkowska D., Zawadzki J., 2021: Influence of the environmental pollution on the distribution and polymerization degree of cellulose in bark and wood from scots pine (*Pinus sylvestris* L.) Stem , Wood Research, 2021, vol. 66, No. 2: .203-210. DOI:10.37763/wr.1336-4561/66.2.203210.

Krzosek S., **Kłosińska T**., 2021 : CLT –material for the measure of the future, Annals of Warsaw University of Life Sciences - SGGW Forestry and Wood Technology, 2021, No. 114: 76-85. DOI:10.5604/01.3001.0015.2377.

Krutul D., Antczak A., Radomski A., Drożdżek M., **Kłosińska T**., Zawadzki J., 2019**:** The chemical composition of poplar wood in relation to the species and the age of trees. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology No 107, 2019: 131-138.

Lehto J. T., Louhelainen J.**, Kłosińska T**., Drożdżek M., Alén R., 2018: Characterization of alkali-extracted wood by FTIR-ATR spectroscopy. Biomass Conversion and Biorefinery No 4, 2018: 847–855. DOI: 10.1007/s13399-018-0327-5.

Krzosek S., **Kłosińska T**., Biernacka J., 2018: Prefabrication – a future of wood construction in Poland? Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology No 104, 2018: 432-437.

Krzosek S., Biernacka J., **Kłosińska T**., Mańkowski P., 2018: Modernisierungsprozess der polnischen Sägeindustrie beschleunigt. Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology No 104,2019: 117-122.

Louhelainen J., Lehto J. T., **Kłosińska T**., Drożdżek M., Alén R., 2017: Characterization of pre-treatments on wood chips prior to delignification by near infrared spectroscopy. BioResources No 12/4, 2017: 8378-8389.

Gruszczyński R., Krzosek S., **Kłosińska T., 2017:** Canada – a new partner for Polish wood industry. Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology No 100, 2017: 23-31.

Zielenkiewicz T., Szadkowski J., Drożdżek M., Zielenkiewicz A., **Kłosińska T**., Antczak A., Zawadzki J., Gawron J., 2016: „Application of x-ray fluorescence technique for determination of heavy metals uptake by different species if poplar". Drewno: prace naukowe, doniesienia, komunikaty No 59/197, 2016: 113-126. DOI: 10.12841/wood.1644-3985.C19.20.

Lehto J., T., Louhelainnen J., Pakkanen H., Malkavaara P., **Kłosińska T**., Drożdżek M., Alen R. 2016: Chemometric study on alcaline pre-treatments of wood chips prior to pulping. Bioresources No 11/2, 2016: 4621-4632.

Zawadzki J., Gawron J., Antczak A., **Kłosińska T**., Radomski A. 2016: The influence of heat treatment on the physico-chemical propertis of pinewood (*Pinus sylvestris* L.). Drewno No 59/6, 2016: 49-57. DOI: 10.12841/wood.1644-3985.135.04.

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