



## D.Sc. Piotr Witomski

### CONTACT

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### EDUCATION

Occupational titles and science degrees	Date (year)	Institution
<b>M.Sc.</b> of Wood Technology	1991	Faculty of Wood Technology Warsaw University of Life Sciences - SGGW
<b>M.A.</b> of History of Art	1993	Faculty of Faculty of History Cardinal Wyszyński University in Warsaw
<b>Ph.D.</b> of forest sciences	1999	Faculty of Forestry Warsaw University of Life Sciences - SGGW
<b>D.Sc.</b>	2009	Faculty of Wood Technology Warsaw University of Life Sciences - SGGW

### PROFESIONAL COMPETENCE

Position	Date (year)	Institution
assistant	1991- 1999	Faculty of Wood Technology Warsaw University of Life Sciences - SGGW
assistant professor	2000-	Faculty of Wood Technology Warsaw University of Life Sciences - SGGW

Additional information:

- Scientific and academic training at University of Abertay, Dundee U.K. 1994.
- Academic training at Forest Products Laboratory, Madison WI, USA.

### SELECTED CURRENT FUNCTIONS

- Member of Discipline Advice

### DIDACTIC

- the lectures: biodeterioration of wood, wood conservation, wood preservation, outline of wood architecture, conservation of wooden architecture,
- author and co-author of handbooks, course books, monographs, e.g.:  
 Ochrona drewna, Wydawnictwo SGGW, Warszawa 2003,  
 Ochrona drewna – surowca i materiału, Wydawnictwo SGGW, Warszawa 2005 i 2016,

Ochrona budynków przed korozją biologiczną. Rozdz. 5. Owady- szkodniki drewna budowlanego, ARKADY, Warszawa 2001

Przewodnik do ćwiczeń z ochrony i konserwacji drewna, Wydawnictwo SGGW, Warszawa 2008

Ochrona przed wilgocią i korozją biologiczną w budownictwie (Poradnik). Rozdział 7. Owady jako szkodniki drewna budowlanego, GRUPA MEDIUM, Warszawa 2014

## SCIENCE

### Science research:

- impact of fungal growth on wood strength,
- physical methods of wood boring insects control;
- chemical wood protection against wood boring insects insects;
- instrumental methods for detecting xylophagous insects in; trophic conditions for termite feeding;
- species composition and properties of naturally aged wood in Polish historic architecture.

### Research projects:

#### a) after realization

- KBN -6-0761-91-01 Biologiczne metody konserwacji drewna
- 3 P06L 035 25 Ocena metod detekcji czynników biokorozji drewna i oznaczania stanu zachowania zaatakowanego drewna
- N N309 297834 Opracowanie elektroakustycznej metody wykrywania ksylofagicznych owadów niszczących drewniane konstrukcje i wyroby
- 504-06260016 Ochrona drewna konstrukcyjnego zabytków sakralnej architektury Mazowsza przed ksylofagicznymi owadami
- N N309 035338 Wpływ rozkładu powodowanego przez grzyby na zmiany ultrastruktury i właściwości mechaniczne drewna sosnowego

#### b) in realization

- Further research of the AE method in informal teams with the participation of the institutions listed below (PAN Committee award for 2018).

### Cooperation:

- Warsaw University of Technology;
- Polish Committee for Standardization
- Polish Centre for Accreditation
- The Royal Łazienki Museum,
- Ethnographic open-air museums
- Faculty of Biology, Warsaw University of Life Sciences – SGGW.

## RESEARCH OFFER AND EXPERT ASSESSMENTS

- identifying wood-destroying insect species (also in historic buildings) and determining the scale of danger for wooden structures,
- identifying of wood species in historic structures,
- laboratory tests of materials resistance to destruction by soil termites.
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## SELECTED SCIENCE PUBLICATIONS FROM LAST YEARS:

**ORCID: 0000-0002-8735-2214**

### 2021

Krajewski A., Witomski P. 2021: The natural resistance of the yew wood (*Taxus baccata* L.) to destruction by *Reticulitermes lucifugus* var. *santonensis* de Feytaud), Sylwan, 165 (11), 773–778, <https://doi.org/10.26202/sylwan.2021078> ,

Krajewski A., Bilski P., Witomski P. 2021: Możliwość żerowania larw wyschlika grzebykorożnego (*Ptilinus pectinicornis* L.) w biele sosny zwyczajnej (*Pinus sylvestris* L.). Sylwan 165 (6): 463–469.

Krajewski A., Witomski P., Oleksiewicz A. 2021: The subjectivity of estimation of natural wood resistance to destruction by termites based on visual qualification in laboratory tests, *Drewno*, Vol. 64, No. 207, 159 – 166, DOI: 10.12841/wood.1644-3985.325.02

## 2020

Krajewski Adam, Kozakiewicz Paweł, Witomski Piotr, (2020), Comparison of selected properties of natural aged wood and contemporary timber of *Pinus sylvestris* L. investigated using standard methods and measuring of transition speed of ultrasounds along the fibre, *Wood Research*,

Adam Krajewski, Piotr Bilski, Piotr Witomski, Piotr Bobiński, Jakub Guz (2020). The progress in the research of AE detection method of old house borer larvae (*Hylotrupes bajulus* L.) in wooden structures. *Construction and Building Materials* 256 (2020) 119387

## 2019

Adam Krajewski, Paweł Kozakiewicz, Piotr Witomski, Anna Oleksiewicz 2019: Naturalna odporność drewna *Erythrophleum fordii* Oliver i *Hopea pierreii* Hance na niszczenie przez *Reticulitermes lucifugus* var. *santonensis* de Feytaud), Sylwan 163(8), 685-693

Krajewski Adam, Witomski Piotr, Oleksiewicz Anna 2019: The impact of relative air humidity on *Lyctus brunneus* beetles life length, *Drewno. Prace Naukowe, Doniesienia, Komunikaty*, Vol. ? No?, ?-?

## 2018

Aniszewski Michał, Drożdżek Michał, Niedźwiecki Jacek, Nowakowska Justyna Anna, Solecki Rafał, Tereba Anna, Witomski Piotr. (2018) The Parameters Of The Environment of Deposition And Molecular Analyses Of Waterlogged Archaeological Wood From The Early Medieval Site Of Czermno In Eastern Poland. *Drewno* 2018, Vol. 61, No. 201, DOI: 10.12841/wood.1644-3985.239.12

## 2017

Nowakowska Magdalena; Krajewski Adam; Piotr Witomski, Piotr Bobiński 2017: Thermic limitation of AE detection method of old house borer larvae (*Hylotrupes bajulus* L.) in wooden structures, *Construction & Building Materials*, 136 (2017), 446 – 449,

Bilski Piotr, Bobiński Piotr, Krajewski Adam, Witomski Piotr 2017: Detection of woodworms' larvae based on the acoustic signal analysis and the artificial intelligence algorithm, *Archives of Acoustics*, Vol.42, No. 1, 61-70,

Magdalena Nowakowska, Adam Krajewski, Piotr Witomski 2017: The relationship between the masses of old house borer larvae (*Hylotrupes bajulus* L.) and their lengths measured on radiograph, *Drewno. Prace Naukowe, Doniesienia, Komunikaty*, Vol. 60 No199, 81 - 88, No 199, DOI: 10.12841/wood. 1644-3985.201.xx ,

## 2016

Krajewski A., Kozakiewicz P., Witomski P., 2016: Shear strength of Scots pine (*Pinus sylvestris* L.) from the historical buildings. *Wood Research* 61 (5): 845-850.

Krajewski A., Witomski, P. Kotarbiński Sz. 2016: Susceptibility of hornbeam and Scots pine woods to destruction by the subterranean termite *Reticulitermes lucifugus* RoSSi,1792 (Blattodea: Isoptera), *Polish Journal of Entomology*, Vol. 85: 409 – 417, DOI: 10.1515/pjen-2016-0025,

Piotr Witomski, Wiesław Olek, Jan T. Bonarski (2016): Changes in strength of Scots pine wood (*Pinus sylvestris* L.) decayed by brown rot (*Coniophora puteana*) and white rot (*Trametes versicolor*), *Construction and Building Materials* 102 (2016) 162–166

## 2015

Krajewski A., Lisiecka E., Drożdżek M., Witomski P. 2015: The susceptibility of neolithic waterlogged beech wood (*Fagus sylvatica* L.) to destruction by *Reticulitermes lucifugus* Rossi, *Drewno. Prace Naukowe, Doniesienia, Komunikaty*, Vol. 58, No 195, 59 – 68, DOI: 10.12841/wood.1644-3985.113.05,

#### 2014

Witomski P., Krajewski A., Kozakiewicz P., 2014: Selected mechanical properties of scots pine wood from antique churches of Central Poland. *European Journal of Wood and Wood Products* (2014) 72:293-296. – <http://link.springer.com/article/10.1007/s00107-014-0783-y/fulltext.htm>

Witomski P., Olek W., Bonarski J. T.: (2014) Effects of white and brown rot decay on changes of wood ultrastructure. *BioResources* 9 (4), 7363-7371.

#### 2013

Witomski Piotr, Zawadzki Janusz, Radomski Andrzej Tomaszewski W. (2013): Variation in cellulose properties in the common pine (*Pinus sylvestris* L.) wood during white- and brown-rot decay induced by *Trametes versicolor* and *Coniophora puteana* fungi. *Wood Research* 2013, Vol. 58, (2): 165-172.

Aniszewski M. Witomski P. (2013): The state of preservation of archaeological wood uncovered in the grotto foundations of the retaining wall of the palace museum in Wilanów. *Drewno. Prace Naukowe, Doniesienia, Komunikaty*. 2013, vol. 56. Nr 190, s. 146-154.

January 2022