



Ph.D. Radosław Auriga, assistant professor

CONTACT

Department of Mechanical Processing of Wood
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EDUCATION

Occupational titles and science degrees	Date (year)	Institution
Master engineer of Wood technology	1997	Faculty of Wood Technology
Doctor of forest sciences in field of wood technology	2002	Warsaw University of Life Sciences - SGGW

PROFESIONAL COMPETENCE – over 20 Years

Position	Date (year)	Institution
Assistant professor	2015	Faculty of Wood Technology
Assistant professor (with Ph.D)	2017	Warsaw University of Life Sciences - SGGW

SELECTED CURRENT FUNCTIONS

- member of the editorial board of journal „Biuletyn Informacyjny OBRPPD w Czarnej Wodzie” - <http://biuletyn.online>
- supervisor of second-year full-time students in the field of furniture

DIDACTIC

- the lectures: Electrotechnics and electronics, Mechanical engineering, Production Machines, Production and transportation machines, Production machines used in wood-based panels manufacturing, Production machines used in furniture industry, Inner transport devices in furniture industry..

SCIENCE

Science research:

- machinability of wood and lignocellulosic materials;
- quality of wood and lignocellulosic materials processing;
- computer modeling of processing of wood and lignocellulosic materials;
- research on the optimization of pneumatic transport devices

Research projects:

a) in realization

- „Improving process and material efficiency in the sawmill industry” – - research project in program Biostrateg3 NCBiR nr BIOSTRATEG3/344303/14/NCBR/2018 financed by National Centre of Research and Development – Researcher.

b) last realized

- Research project of The National Centre for Research and Development No: LIDER/002/406/L-4/12/NCBR/2013: Innovative composite materials from renewable lignocellulosic biomass in a short cycle, increasing the competitiveness of the wood industry. Researcher, 2014 – 2016
- Rector's research project No 505-10-062500-L00440-99: Diagnostics of tools and cutting process of wood-based materials with the current and power measuring system of the machine tools. Researcher, 2014 – 2015
- Rector's research project No 505-10-062700-k00296-99: Study of the performance of wood-based panels produced from raw material stored under various conditions. Head, 2013 – 2014
- Rector's research project: Influence of raw material storage on to physical and mechanical properties of particleboard. Head, 2012.

Cooperation:

- Research centers e.g.: Poznan University of Life Sciences, Wood Technology Institute, Research & Development Centre for Wood-Based Panels Sp. z o. o. in Czarna Woda;

RESEARCH OFFER AND EXPERT ASSESSMENTS

- assessment and comparative analysis of the quality of wood processing, wood-based panels and other lignocellulosic composites;
- assessments and analysis of pneumatic transport installation projects
- complaints and disputes regarding the quality of wood processing and wood-based products;
- assessment and comparative analysis of the properties of new lignocellulosic materials (WPC, chipboards and fiberboards, lignocellulosic composites);
- assessment and comparative analysis of the quality of wood processing, wood-based panels and other lignocellulosic composites;
- assessments and analysis of pneumatic transport installation projects

SELECTED SCIENCE PUBLICATIONS FROM LAST 6 YEARS:

ORCID: 0000-0001-5627-2425

2019

Borysiuk P., Jencyk-Tołłoczko I., Auriga R., Kordzikowski M. 2019: Sugar beet pulp as raw material for particleboard production. *Industrial Crops and Product* 141 (2019) DOI: <http://doi.org/10.1016/j.indcrop.2019.111829>

Borysiuk P., Burawska-Kupniewska I., Auriga R., Kowaluk G., Kozakiewicz P., Zbieć M., 2019: Influence of layered structure of composite timber floor boards on their hardness. *Drvna Industrija* 70 (4) 399-406 DOI 10.5552 drvind.2019.1856.

Borysiuk P., Auriga R., Końska P. 2019: Influence of the filler on the density profile of wood polymer composites. *Annals of WULS, Forestry and Wood Technology* No 106, p. 31-37

Borysiuk P., Tetelewska A., Auriga R., Jencyk-Tołłoczko I. 2019: The influence of temperature on selected strength properties of furniture particleboard. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology*, nr 108, s. 128-134

Borysiuk P., Furmanik A., Auriga R. 2019: Wpływ warunków użytkowania na wybrane właściwości meblowych płyt wiórowych wykończonych filmem melaminowym *Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie* 2019, <http://doi.org/10.32086/biuletyn.2019.04>

Auriga R., Borysiuk P., Gumowska A., Smulski P. 2019: Influence of apple wood waste from the annual care cut on the mechanical properties of particleboard. *Annals of WULS, Forestry and Wood Technology* No 105, p. 47-53

Auriga R., Borysiuk P., Smulski P. 2019: Drewno jabłoni pochodzące z rocznego cięcia pielęgnacyjnego jako dodatek surowcowy przy produkcji płyt wiórowych. *Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie* 2019, nr 1/2, s. 17-24 DOI: <http://doi.org/10.32086/biuletyn.2019.02>

2018

Mamiński M.Ł., Trzepała A., Auriga R., H'Ng P. S., Chin K. L. 2018: Physical and mechanical properties of thin high density fiberboard bonded with 1,3-dimethylol-4,5-dihydroxyethyleneurea (DMDHEU), *The Journal of Adhesion*, DOI: 10.1080/00218464.2018.1500280

Borysiuk P., Auriga R., Jankowski K., Monder S. 2018: Layered structural-insulating panels. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 2018, nr 104, s. 239-244

Auriga R., Miśtał B., Mitura S., Molendowski R. 2018: Wpływ udziału włókien drzewnych na właściwości mechaniczne płyt wiórowych. Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie 2018, nr 3/4, s. 93-101. <http://doi.org/10.32086/10.32086/biuletyn.2018.04>

Borysiuk P., Auriga R., Stępień M., Jencyk-Tołłoczko I. 2018: Attempts at application of polyethylene-coated waste paper as a raw material in the insulation boards production. *Trieskové a Beztrieskové Obrábanie Dreva = Chip and Chipless Woodworking Processes* 2018, Vol. 11, nr 1, s. 235-240

2017

Kozłowski P., Kukuła W., Szymanowski K., Kowaluk G., Czarniak P., Auriga R., Kwaśny Ł. 2017: Drilling features of particleboard made of selected fruit trees prunings. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 2017, nr 98, s. 53-58

Borysiuk P., Auriga R., Majkowski M. 2017: Effect of resin surface protection on selected properties of plywood. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 2017, nr 98, s. 20-25

Auriga R. 2017: Wpływ sposobu składowania zrębków drzewnych na właściwości fizyczne i mechaniczne płyt wiórowych. *Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie* 2017, nr 3/4, s. 106-119. DOI: <http://doi.org/10.32086/biuletyn.2017.04>

2016

Kowaluk G., Zajac M., Czubak E., Auriga R., 2016: Physical and mechanical properties of particleboards manufactured using charcoal as additives. *iForest (early view)*. – DOI: <http://doi.org/10.3832/ ifor1963-009>

Kong M. T., Lim T. W., Król P., Auriga R., Mamiński M. Ł., 2016: 1,3-Dimethylol-4,5-dihydroxyethyleneurea as a Potential Alternative Binder for Plywood. *The Journal of Adhesion*, DOI: <http://doi.org/10.1080/00218464.2015.1057338>

Borysiuk P., Chrzanowski Ł., Auriga R., Boruszewski P., 2016: Thermally modified particles as raw material for particleboards production. *Trieskové a beztrieskové obrábanie dreva* 2016, Vol. 10, nr 1, s. 241-245

Magrupov F., Alimov I., Turabdjanyov S., Borysiuk P., Czarniak P., Monder S., Auriga R., 2016: Wood-polymeric materials on the basis of polyolefins Cz. 4 Investigation of formation conditions of chemical bonds between wood and secondary polyolefins. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 2016, nr 94, s. 60-66

2015

Szadkowska D., Radomski A., Marchwicka M., Lewandowska A., Szadkowski J., Zawadzki J., Drożdżek M., Auriga R., 2015: Możliwość wykorzystania biomasy użytkowych tworzyw drzewnych w technologii ciekłych biopaliw. *Przemysł Chemiczny* No 94/10 (2015), 1700-1702, DOI: <http://doi.org/10.15199/62.2015.10.9>

Borysiuk P., Dreda M., Auriga R., Boruszewski P., Monder S., 2015: Comparison of selected properties of varnish coatings curing with the use of UV and UV-LED approach. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 2015, nr 92, s. 49-54

Szymanowski K., Szymona K., Morek R., Górski J., Podziewski P., Cyrankowski M., Auriga R., 2015: Influence of coatings on edge milling quality. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology*, nr 92, s. 444-447

Borysiuk P., Kosiorek M., Auriga R., Wilkowski J., 2015: Particleboard with addition of SBR rubber granules in the core layer. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology*, nr 89, s. 5-10

Szadkowska D., Szadkowski J., Lewandowska A., Auriga R., Marchwicka M., Drożdżek M., 2015: Wpływ sposobu składowania wiórów sosny zwyczajnej na składniki strukturalne drewna. *Episteme*, T. 1, nr 26, s. 367-374

2014

Czarniak P., Auriga R., Wilkowski J., Borysiuk P., Górski J., Podziewski P., Szymanowski K., 2014: Machinability of three layer MDF boards made of wood fibres with different dimensions. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* No 86, 2014, 50-55

Borysiuk P., Boruszewski P., Auriga R., Gawęł M., 2014: Dimensional stability of layered elements made of thermally modified wood. *Trieskové a beztrieskové obrábanie dreva 2014 = Chip and chipless woodworking processes 2014 : Technical University in Zvolen*, 2014. - S. 191-196

Wilkowski J., Borysiuk P., Górski J., Laszewicz., Szymanowski K., Auriga R., 2014: Wybrane aspekty jakości obróbki skrawaniem płyt MDF. *Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie* 2014, No 1/2, 43-55

More information on my websites:

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<https://scholar.google.com/citations?user=s3z17pwAAAAJ>

<https://www.mendeley.com/profiles/radoslaw-auriga/>

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https://nauka-polska.pl/#/profile/scientist?id=281133&_k=9nvc66

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