Marek Grześkiewicz

Faculty of Wood Technology

Publications from period 2009-2013

Publications with IPF

*1. Gawron J., **Grześkiewicz M**., Zawadzki J., Zielenkiewicz T., Radomski A., 2011: The influence of time and temperature of beech wood (Fagus sylvatica L.) heat treatment in superheated steam. Wood Research, vol. 56, no 2, p. 213-220*

*2. Kowaluk G., Fuczek D., Beer P., **Grześkiewicz M.,** 2011: Influence of the raw materials and production parameters on chosen standard properties for furniture panels of biocomposites from fibrous chips. BioResources, vol. 6, no 3, p. 3004-3018*

*3. Dzurenda L., Orłowski K. A. **Grześkiewicz M.:** 2010: Effect of thermal modification of oak wood on sawdust granularity. Drvna Industrija, no 61 (2), p. 89-94*

Other inernational and Polish publisher in English

*1. **Grześkiewicz M.,** Borysiuk P., Wójcik A., Monder S., 2013: Mechanical and physical properties of beech plywood with densified surfach layers. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology, no. 81, p. 90-96*

*2. **Grześkiewicz M.,** Borysiuk P., Kramarz K., 2012: Physical and mechanical properties of thermally modified and densified MDF. International Wood Products Journal, vol. 3, no 1, p. 21-25*

*3. Wilkowski J., **Grześkiewicz M**., Kargul D., Czarniak P., Wójcik A., 2012: Influence of wood thermal modification on surface roughness after turning. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology, no. 80, p. 200-203*

*4. Boruszewski P., Borysiuk P., Mamiński M., **Grześkiewicz M.**, 2011: Gluability of thermally modified beech (Fagus silvatica L.) and birch (Betula pubescens Ehrh.) wood. Wood Material Science & Engineering , Vol. 6, nr 4, p. 185-189*

*5. Jaskółowski W., **Grześkiewicz M.**, Ochlak M. 2011: Study of minimum ignition temperature in layer and cloud of dusts obtained from natural and thermally modified oak (Quercus robur L.) and ash (Fraxinus excelsior L.) wood. Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology, no 74, p. 125-129*

*6. Wilkowski J., **Grześkiewicz M.**, Czarniak P., Siwek I., Javorek L., Pauliny D., 2011: Influence of thermal modification of oak wood on cutting forces during milling. Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology, no 76, p. 203-207*

*7. Wilkowski J., **Grześkiewicz M.**, Czarniak P., Kleczkowski P., 2011: Surface roughness after sanding of thermally modified oak wood. Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology, no 76, p. 208-211*

*8. Mamiński M., Andruszkiewicz M., Trojanowska E., Król M., **Grześkiewicz M.,** 2010: Colour stability of beech wood modified with isocyanates Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology, no 70, p. 212-214*

*9. Beer P., **Grześkiewicz M.,** Roszkowski M., Sawosz P., 2010: New design of furniture front panels and possibility of heir production. Annals of Warsaw University of Life Sciences –*

SGGW, Forestry and Wood Technology, no 70, p. 9-12

10. ***Grześkiewicz M.,*** *Kędzierski A., Swaczyna I., Policińska-Serwa A., 2010: Comparative studies of varying characteristics of wood surfaces after exposure to natural climate and accelerated aging Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology, no 71, p. 217-220*

11. ***Grześkiewicz M.,*** *Laskowska K., 2010: Moulded plywood elements for furniture made of thermally modified beech veneers. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology, no 70, p.139-143*

12. ***Grześkiewicz M.,*** *Wilkowski J., Czarniak P., Litwa M., 2010: Influence of wood thermal modification on cutting resistance during drilling. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology, no 72, p. 480-484*

13. Borysiuk P., Mamiński M., Boruszewski P., ***Grześkiewicz M.,*** *2010: Bonding quality of UF- and PE- bonded beech plywood made from thermally modified veneers. Wood Adhesives 2009, September 28–30, 2009, Lake Tahoe, Nevada, USA [electronic document] Charles R. Frihart, Christopher G. Hunt, Robert J. Moon – Madison: Forest Products Society, p. 421-423*

14. Orłowski K., ***Grześkiewicz M.****, 2009: The effect of heat treatment of hardwood on the specific cutting resistance. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology no 68, p. 147-151*

15. Dzurenda L., Orłowski K., ***Grześkiewicz M.****, Pauliny D.: Analiza składu wiórów po obróbce drewna modyfikowanego i niemodyfikowanego termicznie. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology no 68, p 213-218*

16. ***Grześkiewicz M.****, Glijer L., 2009: Thermally modified oak wood (Quercus robur L.) water vapor sorption in different artificial climates. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology no 68, p. 298-301*

17. ***Grześkiewicz M.****, Borysiuk P., Mamiński M. 2009: Beech plywood made of thermally modified veneers in relation with water. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology no 68, p. 293-297*

18. Gawron J., ***Grześkiewicz M.****, Zawadzki J., Zielenkiewicz T., 2009: Influence of heat treatment beech wood (Fagus silvatica L.) on polysaccharides composition. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology no 68, p. 270-273*

International conference papers

1. ***Grześkiewicz M.****, Krzosek S., 2012: Effect of thermal modification of beech wood on its physical properties related to water. Current and future trends of thermo-hydro-mechanical modification of wood opportunities for new markets. COST Action FP0904 thermo-hydro-mechanical wood behaviour and processing conference, March 26-28, 2012, Université de Lorraine, France, p. 94-95*

2. Borysiuk P., Zbieć M., Boruszewski P., Mamiński M., ***Grześkiewicz M.,*** *Jenczyk-Tołłoczko I., 2011: Flat-pressed wood plastic composites - mechanical and physical properties and machining capabilities. Proceedings of the International Panel Products Symposium 2011,Llandudno, The Bio Composites Centre, Bangor, Great Britain, p. 227-231*

3. ***Grześkiewicz M****., Borysiuk P., Kramarz K., 2011: Physical and mechanical properties of thermally modified and densified MDF. Proceedings of the International Panel Products Symposium 2011, Llandudno, The Bio Composites Centre Bangor, Great Britain, p. 45-53*

*4. **Grześkiewicz M**., Kurowska A., 2011: Thermo-mechanically (M) modified beech wood (Fagus silvatica L.) as a raw material for parquet. Mechano-chemical transformations of wood during Thermo-Hydro-Mechanical processing COST action FP0904 Thermo-Hydro-Mechanical wood behaviour and processing, ed. by Navi P. and Roth A. Biel, Switzerland, p. 105-107*

*5. Wilkowski J., Czarniak P., **Grześkiewicz M.** ,2011: Machinability evaluation of thermally modified wood using the Taguchi technique. Mechano-chemical transformations of wood during Thermo-Hydro-Mechanical processing COST action FP0904 Thermo-Hydro-Mechanical wood behaviour and processing, ed. by Navi P. and Roth A. Biel, Switzerland, p. 109-111*

*6. Jaskółowski W., **Grześkiewicz M.**, Łukawski D., 2011: Thermogravimetric analysis in isothermal conditions of heat treated pine (Pinus silvestris L.) and poplar (Populus L.) Požární ochrana - sbornik prednášek: XX ročníku mezinárodní konferencje-Ostrava Technická univerzita Ostrava Ostrava, Czechy, p. 112-114*

*7. Kurowska A., Borysiuk P., **Grześkiewicz M.**, Zbieć M., 2011: Gluability of densified veneers bonded with waste thermoplastic materials Proceedings of the International Panel Products Symposium 2011,Llandudno, The Bio Composites Centre, Bangor, Great Britain, p . 161-170*

*8. Borysiuk P., **Grześkiewicz M.**, Mamiński M., 2009: Physical and mechanical properties of beech plywood made of thermally modified veneers. COST Action E49 Conference Process and Performance of Wood-Based Panels, 28-29 April, Istanbul, Turkey, (electronic document edited by M. Hakki Alma, Hülya Kalaycioğlu), p. 42-53*

*9. **Grześkiewicz M**., Mamiński M., 2009: Thermally modified wood protection against UV radiation and water. 4th European Conference on Wood Modification, 27-29 April, 2009, Stockholm, p. 461-464*

*10. **Grześkiewicz M.**, Borysiuk P., 2009: Thermally modified veneers as raw materials for laminate bending, panel finishing and plywood manufacture. COST action E49 Final Conference, 14-15 September, Nantes, France*

*11. **Grześkiewicz M**., Borysiuk P., Jaskółowski W. 2009: Physical and mechanical properties and burning behaviours of beech plywood made of thermally modified veneers. IPPS 2009, 16-18 September, Nantes, France, p. 81-88*

*12. Borysiuk P., Mamiński M., Boruszewski P., **Grześkiewicz M.**: Bonding quality of PE-bonded beech plywood made from thermally modified veneers. Conference on Wood Adhesives 2009, USA.*

*13. Boruszewski P,. Borysiuk P., Mamiński M., **Grześkiewicz M.**, 2009: Susceptibility of thermally modified beech (Fagus silvatica L.) and birch (Betula pubescens Ehrh.) to gluing. Conference on Wood Adhesives 2009, USA.*

*14. Krzosek S., Bacher M., **Grześkiewicz M.**, 2009: Comparison of strength grading machine settings for different grade combinations for Polish-grown Pinus sylvestris L. structural sawn timber, COST action E53 conference, 22-23 October, Lisbon, Portugal*

Popular publictions

*1. **Grześkiewicz M.,** 2013: Nowe tworzywa drzewne i nie tylko… prezentowane w czasie targów Ligna i Interzum 2013. Biuletyn Informacyjny Osrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie, nr 1/2, p. 53-64*

*2. Bernatowicz G., **Grześkiewicz M.**, 2011: Klejenie drewna - raport końcowy akcji COST E34. Przemysł Drzewny,nr 6, p. 36-37*

*3. Bernatowicz G., **Grześkiewicz M.**, 2011: Europejska konferencja poświęcona drewnu modyfikowanemu termicznie - Drezno 2010. Przemysł Drzewny, nr 6, p. 33-35*

*4. Borysiuk P., **Grześkiewicz M.**, Czechowska J., 2011: MFP, QSB, LSB - tradycyjne płyty w nowej odsłonie Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie, nr 1/2, p. 26-29*

*5. Glijer L., **Grześkiewicz M.**, 2011: Suszenie drewna i nie tylko poradnik. Termiczna modyfikacja drewna. Wydawnictwo „Wieś Jutra", p. 136-140*

*6. **Grześkiewicz M**., 2011: Swaczyna Irena 1938-2011. Polski słownik biograficzny konserwatorów zabytków. Z. 4 / pod red. Iwony Błaszczyk [i in.]. - Warszawa : Narodowy Instytut Dziedzictwa, 2011. - p. 126-129*

*7. Glijer L., **Grześkiewicz M.** (współautor rozdziału 17), 2009: Suszenie, parowanie i termiczna modyfikacja drewna. Poradnik. Wieś Jutra, Warszawa, p. 132- 137*

*8. **Grześkiewicz M**., 2009: Drewno modyfikowane termicznie – przykłady zastosowań i badania nad ulepszeniem jakości wyrobów. Przemysł Drzewny nr 5, p. 15-17*

*9. **Grześkiewicz M**., Borysiuk P., 2009: DendroLight – nowe tworzywo drzewne. Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Płyt Drewnopochodnych w Czarnej Wodzie, nr 1-2, p. 40-42*

*10. Borysiuk P., **Grześkiewicz M.**, Boruszewski P.,2009: Lekkie płyty wiórowe. Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie, nr 1-2, p. 19-24*

*11. Borysiuk P., **Grześkiewicz M.**, Boruszewski P., 2009: Drzewno-cementowe elementy budowlane TRÄULLIT – udany powrót „wielkiej płyty". Biuletyn Informacyjny Ośrodka Badawczo-Rozwojowego Przemysłu Płyt Drewnopochodnych w Czarnej Wodzie, nr 1-2 ,p. 25-29*

mechanical wood technology, construction and technology of final wood products such as: furniture, windows, doors, stairs and floors, thermo-mechanical wood modifications, testing mechanically and physically wood and wood panel properties and wood finishing

Education

1969 – 1980 - primary school no 162, named Ignacy Domeyko, Staffa 3/5 str., Warsaw, secondary school, XLI LO, named Joachim Lelewel, Siemiradzkiego 2 str., Warsaw

1982 -1987 – Faculty of Wood Technology, Warsaw Agricultural University SGGW, Rakowiecka 26/30 str., Warsaw

1987 – 1988 – after diploma study for teachers, Warsaw Agricultural University - SGGW, Nowoursynowska 166 str., Warsaw

1993, 1995 – 6+3 months study at Faculty of Technology, Department of Timber and Construction, The Buckinghamshire College, A College of Brunel University, UK, Tempus Programme

Title

1987 - MSc. Eng. of wood technology, specialization mechanical wood technologyMSc thesis title: Project of furniture for students hotel

1999 – dr in area of forestry sciences and sub area of wood technology

Dr thesis title: Selected physical and mechanical properties of beech wood after hydrothermal treatment and pulsating pressing

Work

1987- 1989 – technologist at Faculty of Wood Technology

1990- 1999 - assistant at Faculty of Wood Technology

Since 1999 – assistant professor at Faculty of Wood Technology

2008-2012 – Head of sub department, Construction and Technology of Final Wood Products, Faculty of Wood Technology, Warsaw University of Life Sciences – SGGW

International experience

2007 - 2009, Faculty coordinator for Erasmus Programme

2007, organizing COST Action E 53 conference Quality Control for Wood and Wood Products in Warsaw

2008, 2010, Lectures (2x6 hours) in English in Erasmus, at Ecole Superieure Du Bois in Nantes, France. Testing mechanical properties of Polish sawn timber using different methods: GoldenEye, Timber Grader and 4-points destructive bending tests. Technology and construction of bentwood furniture. Wood modification.

Since 2010, MC member from Poland in COST action FP0904

Thermo-Hydro-Mechanical Wood Behavior and Processing

Since 2011, MC substitute in COST action FP1004

Enhance mechanical properties of timber, engineered wood products and timber structures.

Professional activity

Since 2002 member of Technical Committee for School Furniture, Research and Development Centre of Research and Didactic Equipment COBRABID Ltd.

Since 2003, expert of Association of Foresters and Wood Technologists, area quality of furniture, windows, doors, stairs, floors.

Coauthor of 4 patents.

Participant of TOP500 Innovators Programme, Science Management Commercialization, Berkley, 2 months training on University of California, Berkley, USA, 2013.

Broker of innovation from February 2013.