

Quality Control for Wood and Wood Products

WG 3: Strength, Stiffness and Appearance Grading

LIST OF PUBLICATIONS

Listed Authors:

ALEINIKOVAS, MARIUS	2
BRANDNER, REINHARD	3
BRÄNNSTRÖM, MATTIAS.....	4
DENZLER, JULIA	5
FRÜHWALD, KATJA	6
IEJAVS, JĀNIS	7
KÖHLER, JOCHEN	8
LANVIN, JEAN DENIS	10
REULING, DIDIER	10
MIHAILOVA, JULIA.....	11
MOLONEY, SEAN	14
ROZEMA, PETER.....	15
ROUGER, FREDERIC.....	16
SANDOMEER, MARKUS K.....	20
SPULLE, ULDIS	21
STEIGER, RENÉ.....	22

last update: 2009-01-27

Please send additional and updated publication lists to Markus Sandomeer: Sandomeer@ibk.baug.ethz.ch.

ALEINIKOVAS, MARIUS

Lithuanian Forest Research Institute - Forest Resources, Economics and Policy Department – Lithuania

- M. Aleinikovas, J. Grigaliūnas. Differences of pine (*Pinus sylvestris* L.) wood physical and mechanical properties from different forest site types in Lithuania. *Baltic forestry*. ISSN 1392-1355, 2006, t. 12, Nr. 1.
- M. Aleinikovas. Effect of the Mean Diameter Increment on the Pine Wood Mechanical-Physical Properties in Lithuania. *Baltic Forestry*, ISSN 1392-1355, 2007, Nr 13(1): p. 103-108.
- J. Saladis, M. Aleinikovas. Pušų medienos fizinių ir mechaninių savybių kintamumas bei koreliaciniai ryšiai // *Miškininkystė*. ISSN 1392-2041, 2004, Nr. 1 (55), p. 60 - 67.

BRANDNER, REINHARD

Holz.Bau Forschungs GmbH, Graz – Austria

- Brandner, R.(2006)
Darstellung des Festigkeits- und Steifigkeitspotentials von BSH-Lamellen in Hinblick auf das "Trägermodell".
Brettschichtholz - Ein Produkt mit Geschichte und Zukunft: Workshop anlässlich 100 Jahre Patentschrift
Nr. 197773 Otto Hetzers. (2006), S. 4-1 - 4-28
- Brandner, R. (2006)
Systemeffekte von aus Konstruktionsvollholz aufgebauten Querschnitten.
Salzburg, Fachhochschule - Studiengang Holztechnik und Holzwirtschaft, Dipl.-Arb., 2006
- Brandner, R.; Bogensperger, T.; Jeitler, G.; Schickhofer, G. (2007)
Size effect considerations for linear structural elements of timber.
COST E55 - Modelling of the performance of timber structures - 2nd Workshop and 4th MC Meeting -
Eindhoven University of Technology. (2007), S. 1 - 19
- Brandner, R.; Gehri, E.; Bogensperger, T.; Schickhofer, G. (2007)
Determination of Modulus of Shear and Elasticity of Glued Laminated Timber and related Examinations.
International Council for Research and Innovation in Building and Construction - Working Commission W18
- Timber Structures Meeting Forty. (2007), S. 40-12-2_1 - 40-12-2_20
- Brandner, R.; Schickhofer, G. (2007)
Bearing model for glued laminated timber in bending – new aspects concerning modelling.
COST E 55 Workshop - Graz. (2007), S. 1 - 31
- Brandner, R.; Schickhofer, G. (2006)
System effects of structural elements - determined for bending and tension.
WCTE 2006 - 9th World Conference on Timber Engineering. (2006), S. 1 - 8
- Augustin, M.; Ruli, A.; Brandner, R.; Schickhofer, G. (2006)
Behavior of Glulam in Compression Perpendicular to grain in Different Strength Grades and Load Configurations.
WCTE - 9th World Conference on Timber Engineering (2006), S. 146(8) - 146(8), World Conference on
Timber Engineering ; 2006
- Augustin, M.; Schickhofer, G.; Ruli, A.; Brandner, R. (2006)
Behavior of Glulam in Compression Perpendicular to Grain in different Strength Grades and Load Configurations.
International Council for Building Research, Studies and Documentation, Working Commission W 18 -
Timber Structures, Meeting ; 2006 (2006), S. 39-12-5-1 - 39-12-5-16
- Katzengruber, R.; Schickhofer, G.; Brandner, R.; Jeitler, G. (2006)
Tensile Proof Loading to assure Quality of finger-jointed Structural Timber. -
World Conference on Timber Engineering ; 1 (2006), S. 1 - 9
- *Schickhofer, G.; Brandner, R.; Jeitler, G. (2006)*
Das schwächste Glied in der Kette bestimmt den Level.
HOLZBAU: Aus der Praxis - Für die Praxis. (2006), S. 1 - 29

BRÄNNSTRÖM, MATTIAS

- Brännström, M. (2005).
Establishing a model for the dry density of heartwood of Norway spruce by parameters industrially measurable on green logs.
M.Sc. Thesis, Luleå university of technology, Skellefteå, 2005:207.
- Brännström, M. Manninen, J., Oja, J. (2006).
Tracheid laser scattering: A simple tool for a rough strength estimation.
Workshop on non destructive testing of wood material, Universidad del Bio-bio, 11-13 Dec 2006.
- Brännström, M., Oja, J., Grönlund, A. (2007).
Predicting board strength by X-ray scanning of logs: The impact of different measurement concepts. Scandinavian Journal of Forest Research, 22:60-70.
- Lundgren, N., Brännström, M., Oja, J. (2007).
Predicting the strength of Norway spruce by microwave scanning: A comparison with other scanning techniques. Wood and fibre science, 39:167-172.

DENZLER, JULIA

Holzforschung München - Technical University of Munich – Germany

- Glos, P.; Denzler, J. (2003):
Characteristic Shear Strength Values based on tests according to EN 1193.
Proc. of CIB W 18 Meeting, Estes Park, Colorado, USA. Paper 36-6-1 (2003) 10.
- Glos, P.; Denzler, J.K. (2004):
Effect of Test Piece Orientation on Characteristic Bending Strength of Structural Timber.
Proc. of CIB W 18 Meeting, Edinburgh, Schottland. Tagungsband, Paper 37-6-2 (2004) 8.
- Glos, P.; Denzler, J.K. (2004):
Strength and Stiffness Behaviour of Beech Laminations for High Strength Glulam.
Proc. of CIB W 18 Meeting, Edinburgh, Schottland. Tagungsband, Paper 37-6-3 (2004) 12.
- Glos, P., Denzler, J.K. (2004):
Einfluss von Faserstauchungen auf die Festigkeit von Bauholz.
Schweizerische Forstzeitschrift (SFZ) 12 (2004) 528-532.
- Blaß, H.J.; Denzler, J.; Frese, M.; Glos, P.; Linsenmann, P. (2005):
Biegefestigkeit von Brettschichtholz aus Buche.
Karlsruher Berichte zum Ingenieurholzbau 1. Universitätsverlag Karlsruhe. (2005) 137.
- Denzler, J.K., Diebold, R.; Glos, P. (2005):
Machine strength grading – Commercially used grading machines – current developments.
In Proc. of 14th International Symposium on Nondestructive Testing of Wood. Messe Ligna, Hannover. (2005) 9-16.
- Denzler, J.K.; Glos, P.(2006):
Maschinelle Festigkeitssortierung von Schnittholz.
Tagungsband Forschungskolloquium Holzbau "Forschung und Praxis", S. 19-26. Institut für Konstruktion und Entwurf, Universität Stuttgart (2006).
- Glos, P.; Denzler, J.K. (2006):
Allocation of Central European hardwoods into EN 1912.
Proc. of CIB W 18 Meeting, Florence, Italien. Tagungsband, Paper 39-6-1 (2006) 10.
- Denzler, J.K.; Glos, P. (2007):
Determination of shear strength values according to EN 408.
Mater. Struct. (2007) 40:79-86.
- Denzler, J.K.:
Modellierung des Größeneffektes bei biegebeanspruchtem Fichtenschnittholz. Dissertation, Technische Universität München (2007) 176.
<<http://mediatum2.ub.tum.de/node?id=627306>> (22.01.2008)
- Denzler, J.K.:
Machine strength grading – an overview over existing machines. Cost Action E53 "Quality Control for Wood and Wood Products". – Working Group 3 - Meeting. Hamburg, Germany (2007) 26.
- Denzler, J.K.; Stapel, P.; Glos, P.:
Relationship between global und local MOE. Proc. of CIB W 18 Meeting, St.-Andrews-by-the-Sea, Canada. Paper 41-10-3 (2008) 9.
- Denzler, J.K.; Glos, P.:
Size effects in bending. Proc. of CIB W 18 Meeting, St.-Andrews-by-the-Sea, Canada. Paper 41-6-4 (2008) 11.

FRÜHWALD, KATJA

University of Applied Sciences Lippe and Höxter, Lemgo – Germany

- Frühwald, K. (1999)
Leistungsfähigkeit der Festigkeitssortierung von Holz.
Diplomarbeit an der Universität Hamburg, Fachbereich Biologie
- Frühwald, K. (1999)
Actual possibilities of the machine grading of timber.
CIB-W18, Meeting Thirty-Two, Paper 32-5-1, 13 pages, University of Technology Graz (Austria), August 23-25, 1999
- Frühwald, K. (2000)
Leistungspotenzial der maschinellen Festigkeitssortierung von Schnittholz.
Beitrag im Rahmen der Grazer Holzbau-Fachtagung 2000 „Sortierung und Festigkeit“, Technische Universität Graz, 18 Seiten, www.lignum.at/study/grahft, 29. November 2000
- Frühwald, K.; Schickhofer, G. (2003)
Reduction of the visual determinable criteria on strength relevant grading parameters for the hardwood species beech, oak and ash.
Proceedings of the 5th International Conference on Image Processing and Scanning of Wood in Bad Waltersdorf (Austria), March 23-26, 2003, p. 75-85
- Frühwald, K.; Schickhofer, G. (2004)
Strength Grading of Hardwoods.
Paper + Poster, Proceedings of the 8th World Conference on Timber Engineering – WCTE 2004, Vol. 3, p. 675-679, Lahti (Finland), June 14-17, 2004
- Frühwald, K.; Schickhofer, G. (2004)
Laubholz im Bauwesen und seine Festigkeitssortierung.
Proceedings des VI. Sympóziium DREVO V STAVEBNÝCH KONŠTRUKCIÁCH in Kočovce, S. 105-118, STU Bratislava, 28.-29. Oktober 2004
- Frühwald, K.; Schickhofer, G. (2005)
Strength Grading of Hardwoods.
Proceedings of the 14th International Nondestructive Testing of Wood Symposium, May 2005

IEJAVS, JĀNIS

Forest and Wood Product Research and Development Institute, Jelgava – Latvia

- Iejavs, J. (2007) The influence of wood moisture content and impregnation on the critical bending strength of fingerjointed spruce wood. Zbornik referatov, Technicka univerzita vo Zvolene, XVIII Symposium Adhesives in woodworking industry, 184-188.

KÖHLER, JOCHEN

Swiss Federal Institute of Technology, ETH Zurich – Switzerland

- Köhler, J. and Steiger R. (2006)
A discussion on the control of grading machine settings – current approach, potential and outlook. Proceedings, 39th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 – Timber Structures, CIB-W18, Paper No. 39-5-1, Florence, Italy, August 28-31, 2006.
- Köhler, J., Sørensen, J.D. and Faber, M.H. (2006)
Probabilistic modelling of timber structures.
Accepted for publication in Journal of Structural Safety, 2006.
- Köhler J., Klein J., Fontana M. (2006)
Brandlasten in Industrie- und Gewerbebauten. ‚Baulicher und Technischer Brandschutz‘,
VDI-Berichte Nr. 1909. VDI-Verlag, Düsseldorf.
- Köhler J. (2005)
A probabilistic framework for the reliability assessment of connections with dowel type fasteners. Proceedings of the 38th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 – Timber Structures, CIB-W18, Paper No. 38-7-2, Karlsruhe, Germany, 2005. <download as *.pdf>
- Köhler J., Sorensen J.D., Faber M.H. (2005)
Probabilistic Modeling of Timber Structures.
Proceedings of the international Conference on Probabilistic Models in Timber Engineering, Arcachon, France 2005.
- Köhler J., Faber M.H. (2004)
Proposal for a Probabilistic Model Code for Design of Timber Structures
Proceedings of the 37th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 – Timber Structures, CIB-W18, Paper No. 37-104-1, Edinburgh, UK, 2004.
- Köhler J., Faber M.H. (2003)
A Probabilistic Approach to Cost Optimal Timber Grading
Proceedings of the 36th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 – Timber Structures, CIB-W18, Paper No. 36-5-2, Colorado, USA, 2003.
- Köhler, J. and Faber, M.H. (2003)
A Probabilistic Creep and Fatigue Model for Timber Materials
Proceedings to the 9th International Conference on Applications of Statistics and Probability in Civil Engineering ICASP9, Volume 2, pp. 1141-1148, San Francisco, USA, July 6-9, 2003.
- Köhler J., Svensson S. (2002)
Probabilistic Modeling of Duration of Load Effects in Timber Structures
Proceedings of the 35th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 – Timber Structures, CIB-W18, Paper No. 35-17-1, Kyoto, Japan, 2002.
- Köhler J.(2002)
Probabilistic Modeling of Duration of Load Effects in Timber Structures using a Fracture Mechanics Model
Proceedings 4th International Ph.D. Symposium in Civil Engineering, fib, Munich, September 2002.
- Steiger R., Köhler J. (2005)
Analysis of Censored Data – Examples in Timber Engineering Research.
Proceedings of the 38th Meeting, International Council for Research and Innovation in Building and

Construction, Working Commission W18 – Timber Structures, CIB-W18, Paper No. 38-17-1, Karlsruhe, Germany, 2005.

- Leijten A., Köhler J. and Jorissen A. (2004)
Review of Data for Timber Connections with Dowel-Type Fasteners
Proceedings of the 37th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 – Timber Structures, CIB-W18, Paper No. 37-7-13, Edinburgh, UK, 2004. <download as *.pdf>
- Faber M.H., Köhler J. and Sorensen, J.D. (2004)
Probabilistic Modeling of Graded Timber Material Properties
Journal of Structural Safety, Volume 26, Issue 3, Pages 295-309, July 2004.

LANVIN, JEAN DENIS

REULING, DIDIER

Centre Technique du Bois et de l'Ameublement (CTBA) – France

- LANVIN JD ; CHATELU R ; REULING D ; JOYET P. (1999)
Classement des bois de structure en Pin Maritime par Contrôle Non Destructif
Proceeding du colloque ARBORA « Pin Maritime » 4-5 décembre 1999.
- REULING D, CHATELU R, GODARD, J, LANVIN JD (2002)
Construire avec le mélèze
Proceeding du 2eme International symposium LARIX 2002 Gap 16-21/09/2002
- GRENIER D, BAILLIERES H ; MEOT JM ; LANGBOUR P ; LANVIN JD (2003)
Contribution to study of water loss and oil absorption during oleothermic treatment of wood
Ghent Wood modification 1er symposium, 3-4 avril 2003)
- MOREAU J ; DOIRAT G ; CHANTRE G ; DASILVA D; REULING D ; LANVIN JD (2003)
Caractéristiques technologiques du bois de pin taeda en aquitaine : un premier aperçu
AFOCEL information, Fiche N°678, 2003
- LANVIN JD, CHATELU R , J GODARD, DIDIER REULING (2004)
Performance mécanique du douglas français : potentiel et enjeux des classements pour la résistance
1ere assise DOUGLAS, Tulle octobre 2004
- LANVIN JD, SIMON F ; REULING D, MARCHAL R (2006)
Oak LVL and plywood : A new wood for technical panels
2nd international symposium on Veneer Processing and Products, may 9-10, 2006, Vancouver 2006
- LANVIN JD, CHATELU R , J GODARD, REULING D FERRON JL (2006)
Douglas français et classement des bois
Foret Entreprise °171 pp 59-64 Novembre 2006
- REULING D, LANVIN JD, CHATELU R, GODARD J. (2007)
Sylviculture and prediction of mechanical properties for French larch (*Larix decidua*)
LARIX 2007 congress, Quebec 16-21 of September 2007 pp105-109
- LANVIN JD, REULING D, COSTREL Y, DUCERF J (2007)
Evaluation of French oak for structural use
1st International Scientific Conference on Hardwood Processing, Quebec September 2007, pp 61-65

MIHAILOVA, JULIA

University of Forestry, Sofia – Bulgaria

- Yosifov N., L. Takeva, J. Mihailova. 2002.
Determination of linear-expansion coefficient of particleboards.
IV International symposium “Composite wood materials”. Zvolen – Slovak Republic.
- Yosifov N., J. Mihailova, N. Trichkov. 2002.
Possibilities of improving the homogeneity of the structure on the cross section of particleboards.
IV International symposium “Composite wood materials”. Zvolen – Slovak Republic.
- Mihailova J., G. Kyuchukov, N. Yosifov. 2002.
Comparative data and norms for resistance during removing nails from furniture boards.
10th jubilee national international conference „Standardization – European integration – Consumers „2002”. Sozopol.
- Mihailova J., G. Kyuchukov, N. Yosifov. 2002.
Comparative data and norms for resistance during removing screws from furniture boards.
“Nabytok 2002”. Zvolen – Slovak Republic.
- Mihailova J. 2002.
Technology of particleboards
Handbook of exercises. Publishing house of University of Forestry - Sofia.
- Yossifov N., J. Mihailova, D. Mladenov, B. Iliev. 2002.
Research on the technological regimes during the production of ecological briquettes made of wheat straw.
Annual proceeding Faculty of Forestry Ss Cyril and Methodius University - Skopje. Vol. 38, p. 121-126.
UDC:662.636
- Iliev B., J. Dimeski, J. Mihailova. 2002.
New wooden composite boards for building application.
Annual proceeding Faculty of Forestry Ss Cyril and Methodius University - Skopje. Vol. 38, p. 21-28.
UDC:674-419:691.11
- Mihailova J. 2003.
Control activities for quality prove according European market requirements.
International scientific conference „50 years University of Forestry - Sofia”. Sofia.
- Yossifov N., J. Mihailova. 2003 .
Investigation on possibilities for introducing of integrated evaluating criterion for quality stability of perticleboards.
International scientific conference „50 years University of Forestry - Sofia”. Sofia.
- Mihailova J. 2003.
Production quality management of wood and wood products – realize necessity.
Concomitant scientific-practical conference of International specializing exhibition “Technomebel’2003”
Inter Expo Center Sofia.
- Iliev B., N. Yosifov, J. Mihailova, J. Dimeski. 2003.
Laminate floor coverings – modern floor coverings.
5th International conference on wood technology, construction industry and wood protection under motto
“Current trends”. Zagreb – Croatia.
- Mihailova J., N. Yosifov, G. Blaskova, I. Valchev. 2003.
Some ecological problems concerning utilization of lingo-cellulose materials for energy purposes.
Seventh international seminar “Low pollutant combustion processes”. TU – Sofia.

- Yosifov N., G. Blaskova, J. Mihailova, I. Valchev. 2003.
Waste and residuals from forestry wood processing and wood utilization in Bulgaria.
Seventh international seminar “Low pollutant combustion processes”. TU – Sofia.
- Kuchukov G., J. Mihailova. 2004.
European directive 89/106EEC for 3a building products and willingness of woodworking and furniture industry for introduction of connected harmonize standards.
Concomitant scientific-practical conference of International specializing exhibition “Technomebel’2004”
Inter Expo Center Sofia.
- Mihailova J. 2004.
Introducing and certification of Quality management system.
Concomitant scientific-practical conference of International specializing exhibition “Technomebel’2004”
Inter Expo Center Sofia.
- Mihailova J., R. Grigorov. 2004.
Briquettes made of waste bark from the Paper mill in the town of Stamboliyski, Bulgaria.
European COST E31 Conference “Management of recovered wood - Recycling, Bioenergy and other Options”. Thessaloniki, Greece.
- Yossifov N., I. Palligorov, G. Blaskova, J. Mihailova. 2004.
Utilisation of wood waste from thinnings in Bulgaria.
European COST E31 Conference “Management of recovered wood - Recycling, Bioenergy and other Options”. Thessaloniki, Greece.
- Kostov G., J. Mihailova, V. Stiptzov. 2004.
Bulgarian Forestry and Wood Industry – a short review.
Workshop SoA – FWC. Heriot – Watt Conference Centre. Edinburgh, Scotland. (www.cost-e44.be)
- Mihailova J., B. Iliev, N. Yosifov. 2005.
Comparative analysis and water absorption of water-resistant combined wood-based panels.
Sedmo medunarodno znanstveno savjetovanje “Drvo u graditeljstvu” – Zbornik radova, Zagreb.
- Iliev B., J. Mihailova, J. Dimeski. 2005.
Analiza znacajnih svojstva ploca iverica izradenih od razlicitih materijala.
Sedmo medunarodno znanstveno savjetovanje “Drvo u graditeljstvu” – Zbornik radova, Zagreb.
- Mihailova J., T. Todorov, R. Grigorov. 2005.
Possibilities of utilization of small-sized coniferous wood in Bulgaria.
Proceedings of the COST Action E44 Conference “Broad Spectrum Utilization of Wood”, BOKU Vienna, Austria.
- Mihailova J. 2005.
Some Theoretical research on Wood Based Panels, Produced in Bulgaria.
COST E49 – WG2 - Meeting No1, Llandudno, Wales, UK. (www.costE49.org)
- Yordanova St., J. Mihailova, V. Brezin. 2005.
Overview of the Wood-Based Panel Industry in Bulgaria.
COST E49 – WG3 - Meeting No1, Llandudno, Wales, UK. (www.costE49.org)
- Joint research project BULGARIA - MACEDONIA 2005-2007
QUALITY CONTROL AT UTILIZATION OF AGRICULTURAL RESIDUES AS RAW MATERIAL FOR PARTICLEBOARDS AND BRIQUETTES - leader
- Mihailova J., T. Todorov, R. Grigorov. (2006).
Utilization of cotton stems as raw material for intermediate layer of particleboards .
Conference co-organized by COST Action E44 – E49, Valencia, Spain.
- Tritchkov N., J. Mihailova, St. Yordanova. (2006).
Possibilities for Utilization of bark of Scots pine (Pinus sylvestries) for particleboards manufacturing.
Conference co-organized by COST Action E44 – E49, Valencia, Spain.

-
- Iliev B., K. Gramatikov, J. Mihailova. (2006).
Possibilities for production of new type dimension stable constructive wood-based panels.
Conference co-organized by COST Action E44 – E49, Valencia, Spain.
 - Iliev B., J. Mihailova, M. Nacevski. (2006).
Analise of thickness swelling and water absorption of polish water-resistant wood-based panels.
Journal of Forestry and Wood Industry Forest Review Vol. XLI Pg. 1 – 7 UDC: 674-419.037. Skopje.
 - Iliev B., M. Pesevski, J. Mihailova, T. Todorov, R. Grigorov. (2006).
Possibilities for use of renewable biomass from the agriculture of Republic Macedonia and Republic of Bulgaria.
Journal of Forestry and Wood Industry Forest Review Vol. XLI Pg. 8 – 13 UDC. : 662.63:620.95 (497.7).
 - Yossifov N., J. Mihailova, B. Iliev, J. Dimeski. (2006).
Effectiveness of the combustion process of plant biomass.
Journal of Forestry and Wood Industry Forest Review Vol. XLI Pg. 14 – 20 UDC : 620.952:574.36.
 - Mihailova J., N. Tritchkov. (2006).
The Wood Processing Industry in Bulgaria.
International Workshop on State of the Art in Quality control, COST Action E53, Sopron, Hungary.
 - Mihailova J. (2007).
INPUT WOOD PROCESSING STRATEGY – BULGARIA – WG3 - WOOD BASED PANELS.
COST E44 workshop on “Regional interactions in the Forestry – Wood industry Chain”, Ghent, Belgium.
 - Mihailova J., V. Brezin. (2007).
SOME ASPECTS OF ROBINIA AND POPLAR WOOD UTILIZATION IN BULGARIA.
COST E44 Training School on Plantation Timber – new challenges, Sopron, Hungary.

MOLONEY, SEAN

Wood Technology Centre, Limerick – Ireland

- Moloney,S., Bourke.M. 2004
Adding value to fast grown Sitka Spruce through drying and re-engineering,
Cost Action E15 workshop proceedings, Athens, Greece
- Moloney,S., Knaggs.G. 2002
The Irish Experience- Drying Fast-Grown Sitka Spruce,
Cost Action E15 workshop proceedings Santiago De Compostelo, Spain
- Bourke,M., Moloney.S., Redington. M. 2001
Sitka Spruce dried to low moisture content for predictable in-service performance as construction elements,
Cost Action E15 workshop proceedings, Helsinki.
- Moloney,S.,Lally,D., O Sullivan,D., Browne,J. 2001
Routing of Low Density Edge –glued Pine Panel Board,
paper I.W.M.S conference proceedings, Los Angeles, USA.
- Moloney,S. 2000
Turning and Routing Irish Pine,
Research project COFORD, Dublin, University of Limerick.
- Beasley.M, Moloney,S. 1998
The use of small diameter broadleaf material as an industrial resource,
Report to Forest Service, Dept. Marine and Natural Resources, University of Limerick.

ROZEMA, PETER

Brookhuis Micro-Electronics BV, Eschede – The Netherlands

- Rozema P (2006) In-Line Moisture Meters (training school Hamburg)
- Rozema P (2006) Timber Grading & Machine Testing (training school Hamburg)
- Rozema P. (2007) Strength Class & Moisture Content (Rógow)
- Ravenshorst G.J.P. (2007) Machine strength grading with a flexibility in use and application (Hamburg)
- Rozema P. (2007) Strength Grading & Moisture Content Measurement (Riga)
- Rozema P. (2007) Timber Grader MTG (Warsaw)
- Rozema P. (2008) Timber Grader MTG, scientific overview (UK)
- Rozema P. (2008) Strength Grading for SME's (Oslo)
- Rozema P. (2008) CE marking for SME's (Brussels)
- Rozema P. (2008) Mehr Wertschöpfung (Holzkurier)
- Rozema P. (2008) Präzise Feuchtemessung (Holzkurier)
- Rozema P. (2008) Einfache CE-Markierung (Holzkurier)

ROUGER, FREDERIC

CTBA, Bordeaux – France

- ROUGER F., GUINARD D.
Les Bois Scandinaves sont-ils supérieurs aux bois français ? Quelle est la réalité ?
Revue Forestière française LVII – 1 - 2005
- ROUGER F.
Grading issues related to reliability analysis of timber structures.
Invited lecture to the final conference of COST E24 “Reliability analysis of timber structures”, Arcachon, France, 8-9 septembre 2005
- COINTE A., ROUGER F.
Improving the evaluation of multiple-dowel-type connection strength.
Wood Science and Technology Springer Verlag GmbH ISSN 1432-52-25– 2005
- COINTE A., ROUGER F.
Simplification of the neural network model for predicting the load carrying capacity of dowel-type connections
Communication au CIB W18, Edinburgh, 2004
- ROUGER F.
A review of existing standards related to calculation of characteristic values of timber. –
Communication au CIB W18, Edinburgh, 2004
- COINTE A., ROUGER F.
Prédiction de la résistance d'assemblages par organes de type tige en utilisant l'approche des réseaux de neurones.
Annales GC Bois, vol. 6, 2002
- COINTE A., ROUGER F.
Predicting the load carrying capacity of dowel-type connections by using the neural network approach.
Proceedings of the 22nd international RILEM symposium « Joints in timber structures »
- LEMAGOROU L., ROUGER F., BOS F.
Identification Of Constitutive Laws Of Wood Based Panels Using Inverse Method,
Composite Science And Technology, 2001
- LEMAGOROU L., ROUGER F., BOS F.
Identification de lois de comportement élastique et viscoélastique de panneaux structuraux a base de bois,
Hors-Série Journal des Composites et Matériaux Avancés 2000
- LEMAGOROU L., ROUGER F., BOS F.
Identification de lois de comportement de panneaux structuraux a base de bois par méthode inverse,
12e Journées Nationales Des Composites, 2000
- LEMAGOROU L., ROUGER F., BOS F.
An Inverse Problem Approach To Identify Viscoelastic Behavior Of Structural Wood Based Panels,
Actes de la WCTE 2000, Vancouver, CANADA
- LEMAGOROU L., ROUGER F., BOS F.
Application d'une méthode optique a l'identification de lois de comportement viscoélastique par méthode inverse,
colloque Moyens Optiques pour l'Industrie, 1999
- BLASS H.J., EHLBECK J., ROUGER F.
Simplified design of dowel-type fasteners.
New-Zealand Pacific Timber Engineering Conference, March 1999
- CASTERA P., ROUGER F.
Fiabilité des structures bois : un état de l'art.
Annales du GC Bois, Vol. 3, 1998

- ROUGER F.
Une proposition de simplification des équations de Johansen relatives au calcul de la capacité résistante d'organe d'assemblage de type tige.
Annales du GC Bois, Vol. 2, 1997
- ROUGER F.
A new statistical method for the establishment of machine settings.
30th CIBW18 Meeting, Vancouver, CANADA, August 1997
- ROUGER F.
Application of a modified statistical segmentation method to timber machine strength grading.
Wood & Fiber Science 28(4), 1996
- ROUGER F.,
Time dependent lateral buckling of timber beams
29th CIBW18 Meeting, Bordeaux, FRANCE, August 1996
- ADJANOHOUN G., ROUGER F., TALBI N.
Comportement semi-rigide d'un connecteur métallique à dents embouties sous sollicitations statiques.
Annales du GC Bois, Vol. 1, 1996
- ARAFEH M., KNOPF-LENOIR C., ROUGER F.
Conception optimale d'essais de flexion de plaques orthotropes et identification.
CRAS, t.231, Série II b, p. 351-354, 1995
- ROUGER F., BARRETT J.D.
Size effects in timber.
Publication dans le cadre de l'action Structural Timber Education Programme (STEP) financée par la CEE.
STEP Vol. III, 1995
- RENAUDIN F., ROUGER F., BREYSSE D., LANVIN J.D.
Statistical analysis of scale effect on structural spruce.
Application of statistics and probability. ICASP 7 Conference, Paris, 10-13 July 1995
- LE GOVIC C., ROUGER F., TORATTI T., MORLIER P.
Creep behavior of timber under external conditions.
27th CIBW18 Meeting, Sydney, AUSTRALIA, July 1994
- ROUGER F., LANVIN J.D., EL OUADRANI A.
Predicting bending strength of structural timber by local density measurements.
Pacific Timber Engineering Conference, AUSTRALIA, 1994
- ROUGER F., FEWELL T.
Size effects in timber : Novelty never ends.
27th CIBW18 Meeting, Sydney, AUSTRALIA, 1994
- RACHER P., ROUGER F.
Serviceability limit states : a proposal for updating Eurocode 5 with respect to eurocode 1.
27th CIBW18 Meeting, Sydney, AUSTRALIA, 1994
- ROUGER F.
Normalisation Française des structures bois - Interactions avec l'Eurocode 5.
Cycle d'Etudes Post-grade de l'Ecole Polytechnique Fédérale de Lausanne "Les Constructions en bois : Conception, Etude et réalisation", 1994
- ROUGER F. , DE LAFOND C. , EL OUADRANI A.
Structural properties of French grown timber according to various grading methods ,
26th CIBW18 Meeting, Athens, USA, 1993
- ROUGER F.
Volume and stress distribution effects.
Publication dans le cadre de l'action Structural Timber Education Programme (STEP) financée par la CEE,
1993

- ROUGER F., COLSON A., VERGNE A.
Maîtrise de la semi-rigidité des assemblages dans les structures de génie civil. Synthèse et mise en forme de documents opérationnels.
Rapport de fin d'étude d'une recherche financée par le Ministère de la Recherche et de la Technologie,
Décision d'aide n. 92 T 0687, Juillet 1993
- ROUGER F.
Comparing design results for glulam beams according to Eurocode 5 and to the French Working stress design code (CB 71),
26th CIBW18 Meeting, Athens, USA, 1993
- ROUGER F.
Eurocode 5: Le calcul des structures en bois à l'heure Européenne,
CTBA Info, Nov. 1993
- ROUGER F., ARAFEH M.
Résultats concernant l'identification de paramètres élastiques de plaques en flexion anticlastique.
Rapport d'activité scientifique du Groupement de Recherche CNRS "Papiers et Dérivés", 1992
- ROUGER F.
Reliability Analysis of Wood Structures, New methods for improving Design
Invited Conference, International Union of Forest Research Organizations, 1992
- ELBEZ G., ROUGER F.
Modélisation du test de collage par cisaillement par compression,
IUFRO Conference, 1992
- ROUGER F., KNOPF-LENOIR C., TOUZOT G.
Identification des paramètres élastiques de plaques orthotropes,
Rapport d'activité scientifique du Groupement de Recherche CNRS "Papiers et Dérivés", 1991
- ROUGER F.
Reliability of structural elements : A parametric approach
Communication to 1991 Timber Engineering Conference - London , UK, 1991
- ROUGER F.
Principes de fiabilité et applications à la construction,
Cycle d'Etudes Post-grade de l'Ecole Polytechnique Fédérale de Lausanne "Les Constructions en bois :
Conception, Etude et réalisation", 1991
- ROUGER F. , LE GOVIC C. , CRUBILE P. , SOUBRET R. , PAQUET J.
Creep Behavior of French Woods.
Communication to Timber Engineering Conference - Tokyo, Japan, 1990
- ROUGER F., KHEBIBECHE M., LE GOVIC C.
Non determined tests as a way to identify wood elastic parameters : the finite element Approach.
Communication to Euromech Colloquium on "Experimental Identification of the mechanical characteristics
of composite materials and structures" - St Etienne , December 1990
- ROUGER F., LHERITIER N., RACHER P., FOGLI M.,
Reliability analysis of wood structural elements: a probabilistic method to Eurocode 5 calibration
Communication au 23ème colloque du Conseil International du Bâtiment, Groupe de Travail W18 sur les
structures en Bois - Lisbon, September 1990
- LE GOVIC C., BENZAIM A., ROUGER F.
*Creep Behavior of Wood as a function of temperature : Experimental Study, Modelling and consequences for Design
Codes*
2nd Pacific Engineering Conference, Auckland, New-Zealand, 1989
- ROUGER F., BARRETT J.D., FOSCHI R.O.
Reliability Analysis of Viscoelastic Floors.

- Communication au 22ème colloque du Conseil International du Bâtiment, Groupe de Travail W18 sur les structures en Bois - Berlin, September 1989
- ROUGER F.
Application des méthodes numériques aux problèmes d'identification des lois de comportement du matériau bois.
Thèse de doctorat de l'Université de Technologie de Compiègne, 165 pages, 1988
 - LE GOVIC C. , ROUGER F. , FELIX B.
Approche d'un modèle multi-transitions paraboliques pour le fluage du bois
Communication au Colloque Scientifique Européen sur le Comportement Mécanique du Bois - Bordeaux, Juin 1988
 - LE GOVIC C., ROUGER F., KHEBIBECHE M., FELIX B.
Etude de la déformabilité et des contraintes ultimes à la rupture.
Rapport de recherche sur le "Comportement rhéologique et Mécanique du Bois" financée par le MRES, 1988
 - ROUGER F.
Structural Analysis of Wood Systems considering viscoelastic behavior. Part I : Theoretical Development.
Univ. of British Columbia, Reliability of Wood Structures Series, 43 pages, 1988
 - ROUGER F., BARRETT J.D., FOSCHI R.O.
Structural Analysis of Wood Systems considering viscoelastic behavior. Part II : Reliability Analysis of Viscoelastic Floors.
Univ. of British Columbia, Reliability of Wood Structures Series, 63 pages, 1988
 - LE GOVIC C., HADJ-HAMOU A., ROUGER F., FELIX B.
Modélisation du fluage du bois en flexion quatre points dans la direction longitudinale des fibres à différentes températures et humidités
Communication au 2ème colloque des Sciences et Industries du Bois - Nancy , Avril 1987
 - FELIX B., LE GOVIC C., ROUGER F.
Etude critique et projets de modifications de la normalisation française des essais mécaniques sur le bois
Communication au 2ème colloque des Sciences et Industries du Bois - Nancy , Avril 1987
 - FELIX B., HADJ-HAMOU A., LE GOVIC C., ROUGER F., HUET C.
Incidence de l'anisotropie du bois sur son comportement mécanique
Communication au Colloque ARBORA, Bordeaux, 1986
 - KAUMAN W.G., HUET C., FELIX B., HADJ-HAMOU A., LE GOVIC C., ROUGER F., HAYASHI K.
Comportements du bois sous sollicitations de longue durée
Commission des Communautés Européennes. Contrat BOS 037F - Etude CTBA R446/RBJ, 1986
 - KAUMAN W.G., HUET C., FELIX B., HADJ-HAMOU A., LE GOVIC C., ROUGER F.
Rapport de recherche sur contrat de programme 3ème volet (Rhéologie) du MRES, 1986
 - ROUGER F.
Modélisation Numérique d'une poutre en Bois Lamellé-Collé soumise à une compression axiale
Mémoire de DEA "Mécanique Appliquée à la Construction" de l'Université de Technologie de Compiègne - 35 pages, 1985

SANDOMEER, MARKUS K.

Swiss Federal Institute of Technology, ETH Zurich – Switzerland

Swiss Federal Laboratories for Materials Testing and Research, EMPA - Dübendorf – Switzerland

- Sandomeer (ne Deublein) M. K. (2006).
Comparison of different visual and machine strength grading strategies for classification of formwork girders.
Master-Thesis / Diplomarbeit bei Prof. Dr.-Ing. P. Glos, Holzforschung München, Technical University of Munich.
- Sandomeer M. K., Köhler J., Steiger R. (2007)
Discussion on the control of grading machine settings with regard to EN 14081
Contribution to COST E53, WG3 meeting, Hamburg, Germany, 14/15 May 2007.
- Sandomeer M. K., Köhler J., Linsenmann P. (2007).
The efficient control of grading machine settings.
Proceedings of the 40th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 - Timber Structures, CIB-W18, Paper No. 40-5-2, Bled, Slovenia, 2007.
- Sandomeer M. K., Köhler J. (2007).
Approach for an efficient control of grading machine settings.
Proceedings of the 1st Conference, COST Action E53 "Quality Control for Wood and Wood Products".
Warsaw, Poland. October, 15-17th. pp. 115-120.
- Köhler J., Sandomeer M. K. (2007).
Modeling the properties of strength graded timber material.
Proceedings of the 1st Conference, COST Action E53 "Quality Control for Wood and Wood Products".
Warsaw, Poland. October, 15-17th. pp. 69-74.
- Sandomeer M. K., Köhler J. (2008)
Representing the spatial distribution of strength related timber material properties by means of hierarchical modeling
Contribution to COST E55, 3rd meeting, Helsinki, Finland, 13/14 March 2008.
- Sandomeer M. K., Köhler J. (2008)
Representing the variability of timber material properties by means of probabilistic hierarchical modeling
Contribution to COST E53, WG3 meeting, Oslo, Norway, 19/20 May 2008.
- Sandomeer M. K. (2008)
Maschinelle Festigkeitssortierung von Schnittholz (Machine Strength Grading of Structural Timber)
Schweizerische Arbeitsgemeinschaft für Holzforschung, SAH; Bulletin Holzforschung Schweiz 1-2008.
- Sandomeer M. K., Köhler J., Faber M. H. (2008).
Probabilistic Output Control of Structural Timber – Modelling Approach.
Proceedings of the 41st Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 - Timber Structures, CIB-W18, Paper No. 41-5-1, St. Andrews, Canada, 2008.
- Sandomeer M. K., Köhler J., Faber M. H. (2008).
Adaptive adjustment of grading machine settings.
Proceedings of the 2nd Conference, COST Action E53 "End User's Needs for Wood Material and Products".
Delft, The Netherlands. 29/30 October 2008. pp. 217-222.

SPULLE, ULDIS

Warsaw Agricultural University - Poland

- Spulle U., Pušinskis V. (2004) Mechanical properties of wood species for the pallet production. Research for rural development 2004, Jelgava, Latvia, pp. 204- 208.
- Spulle, U., Pušinskis, V., (2005) The quality of pallet preparation of softwood (spruce and pine). LUA proceedings No 14 (309), Jelgava, Latvia, pp. 108- 113.
- Spulle U., Pušinskis V., Hrols J., Dolacis J. Investigation of the quality of blanks of wooden pallets. Annals of Warsaw Agricultural University – SGGW, Forestry and Wood Technology No 57, 2005, Warsaw, Poland, pp. 209-213.
- Spulle, U., Pušinskis, V., Rasmanis, R. (2006) Statistical criteria of strength of the wooden pallet components, Fifth Nordic-Baltic Agrometrics Conference, Otepää, Estonia, Conference report 1, Uppsala, Sweden, pp.139- 142.
- Spulle, U., Ošs, J. Pušinskis, V. (2006) Initial Research of Strength of the Wooden Pallets, International Scientific Conference Proceedings, Research for Rural Development 2006, LLU, Jelgava, Latvia, pp. 284-288.
- Spulle, U., J. Pušinskis, V. (2006) Research of strength of Euro pallets. Proceedings of the 5th IUFRO Symposium „Wood Structure and Properties 06”, Sliač-Sielnica, Slovakia, pp. 485- 489.
- Spulle U., Pušinskis V., Tuherm H. Investigation of the bending strength of hardwood (aspen and alder) pallets. Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology. No 62. Warsaw, Poland, 2007, pp. 246.-250.
- Spulle, U., Pušinskis, V., Tuherm H. (2008) Bending stiffness of Traffic pallets of the pine and spruce wood. LUA proceedings Nr. 20 (315), Jelgava, Latvia, pp. 136- 144.

STEIGER, RENÉ

Swiss Federal Laboratories for Materials Testing and Research, EMPA - Dübendorf – Switzerland

- Steiger R., Gülzow A., Gsell D. 2008: Non destructive evaluation of elastic material properties of cross-laminated timber (CLT). In: Proceedings of the Second Conference of COST E53 "Quality Control for Wood and Wood Products", Delft, The Netherlands, 29. – 30. 10. 2008. 171 – 182.
- Steiger R., Arnold A. 2008: Strength grading of Norway spruce structural timber: revisiting property relationships used in EN 338 classification system. Wood Science and Technology. Published online 30. 9. 2008. DOI 10.1007/s00226-008-0221-6.
- Steiger R., Köhler J. 2008: Development of new Swiss standards for the reassessment of existing load bearing structures. In: Proceedings of CIB-W18 Meeting 41, St. Andrews by-the-Sea, Canada, 24. – 38. 8. 2007. Paper 41-102-2.
- Köhler J., Frangi A., Steiger R. 2008: On the role of stiffness properties in ultimate limit state design of slender columns. In: Proceedings of CIB-W18 Meeting 41, St. Andrews by-the-Sea, Canada, 24. – 38. 8. 2007. Paper 41-1-1.
- Serrano E., Steiger R., Lavisci P. 2008: Glued-in rods. In: Core Document of the COST Action E34 "Bonding of Timber". Lignovisionen, issue 18 / special edition. University of Natural Resources and Applied Life Sciences, Vienna, Austria. 31 – 39.
- Spycher M., Schwarze F. W. W. R., Steiger R. 2008: Assessment of resonance wood quality by comparing its physical and histological properties. Wood Science and Technology 42:4. 325 – 342.
- Gülzow A., Gsell D., Steiger R. 2008: Zerstörungsfreie Bestimmung elastischer Eigenschaften quadratischer 3-schichtiger Brettsperrholzplatten mit symmetrischem Aufbau. Holz als Roh- und Werkstoff 66:1. 19 – 37.
- Gülzow A., Steiger R., Gsell D., Wilson W., Feltrin G. 2007: Dynamic Field Performance of a Wooden Trough Bridge. In: Proceedings of the Second International Conference on Experimental Vibration Analysis for Civil Engineering Structures (EVACES'07), Porto, Portugal, 24. – 26. 10. 2007. 181 – 188.
- Arnold A., Steiger R. 2007: Relevance of wind-induced compression failures regarding bending strength and stiffness of Spruce structural timber. In: Proceedings of the First Conference of COST E53 "Quality Control for Wood and Wood Products", Warsaw, Poland, 15. – 17. 10. 2007. 1 – 6.
- Steiger R., Gehri E. 2007: Quality control of glulam: Shear tests of glue lines. In: Proceedings of CIB-W18 Meeting 40, Bled, Slovenia, 28. – 31. 8. 2007. Paper 40-12-7.
- Czaderski C., Steiger R., Howald M., Olia S., Gülzow A., Niemz P. 2007: Versuche und Berechnungen an allseitig gelagerten 3-schichtigen Brettsperrholzplatten. Holz als Roh- und Werkstoff 65:5. 383 – 402.
- Widmann R., Steiger R., Gehri E. 2007:
Pull-out strength of axially loaded steel rods bonded in glulam perpendicular to the grain.
Materials and Structures. Published online 23th January 2007.
- Steiger R., Gehri E., Widmann R. 2007:
Pull-out strength of axially loaded steel rods bonded in glulam parallel to the grain.
Materials and Structures 40:1. 69 – 78.
- Arnold A., Steiger R. 2007:
The influence of wind-induced compression failures on the mechanical properties of spruce structural timber.
Materials and Structures 40: 57 – 68.
- Gsell D., Feltrin G., Schubert S., Steiger R. Motavalli M. 2007:
Cross-laminated timber plates: Evaluation and verification of homogenized elastic properties.
Journal of Structural Engineering 133:1. 132 – 138.

- Steiger R., Arnold M., Fontana M. 2006:
Revisiting EN 338 and EN 384 basics and procedures.
In: Proceedings of CIB-W18 Meeting 39, Florence, Italy. Paper 39-6-2.
- Köhler J., Steiger R. 2006:
A discussion on the control of grading machine settings.
In: Proceedings of CIB-W18 Meeting 39, Florence, Italy. Paper 39-5-1.
- Schubert S., Gsell D., Feltrin G., Gülzow A., Steiger R. 2006:
Identification of elastic material properties of solid wood panels.
In: Proceedings of 2nd International Symposium on Advanced Timber and Timber-Composite Elements for Buildings, Acoustic Performance and Low Frequency Vibration, Biel, Switzerland. 59 – 68.
- Steiger R., Köhler J. 2005:
Analysis of censored data - Examples in timber engineering research.
In: Proceedings of CIB-W18 Meeting 38, Karlsruhe, Germany. Paper 38-17-1.
- Arnold M, Steiger R. 2005:
Are wind-induced compression failures grading relevant?
In: Proceedings of CIB-W18 Meeting 38, Karlsruhe, Germany. Paper 38-5-1.
- Richter K., Steiger R. 2005:
Thermal stability of wood-wood and wood-frp bonding with polyurethane and epoxy adhesives.
Advanced Engineering Materials 7:5. 419 – 426.
- Steiger R., Fontana M. 2005:
Bending moment and axial force interacting on solid timber beams.
Materials and Structures 38:279. 507 – 513.
- Steiger R. 2004:
Bonding of carbon fiber reinforced plastics (CFRP) with wood.
In: Proceedings of COST E34 conference "Innovations in Wood Adhesives", Biel, Switzerland. 33 – 50.
- Steiger R., Gehri E., Widmann R. 2004:
Glued-in steel rods: A design approach for axially loaded single rods set parallel to the grain.
In: Proceedings of CIB-W18 Meeting 37, Edinburgh, UK. Paper 37-7-8.
- Steiger R. 2004:
Interacting bending moment and axial force on sawn timber beams.
In: Proceedings of the 8th World Conference on Timber Engineering, Lahti, Finland. Vol. 3. 179 - 182.
- Steiger R. 2002:
Fibre reinforced plastics (FRP) in timber structures – Investigations and developments.
In: Proceedings of the EUROWOOD Workshop on "Engineered Wood Products – Innovation and Exploitation", VTT, Espoo, Finland.
- Steiger R. 2001:
Influence of wood quality and sawing pattern on the strength of finger-joints – an application of the ultrasonic grading technique.
In: Proceedings PRO 22 of the RILEM-Symposium on "Joints in Timber Structures", University of Stuttgart, Otto-Graf-Institute, Germany. 493 – 502.
- Steiger R. 1997:
Mechanische Eigenschaften von Schweizer Fichtenholz.
Holzforschung und Holzverwertung 49:5. 83 – 90.
- Steiger R. 1997:
Sortierung von Rund- und Schnittholz mittels Ultraschall.
Holzforschung und Holzverwertung 49:2. 28 – 35.
- Steiger R. 1996:
Mechanische Eigenschaften von Schweizer Fichten-Bauholz bei Biege-, Zug-, Druck- und kombinierter M/N-

Beanspruchung; Sortierung von Rund- und Schmittholz mittels Ultraschall.
Dissertation Nr. 11686, ETH Zürich.

- Steiger R. 1996:
Mechanische Eigenschaften von Schweizer Fichten-Bauholz bei Biege-, Zug-, Druck- und kombinierter M/N-Beanspruchung; Sortierung von Rund- und Schmittholz mittels Ultraschall.
Forschungsbericht ETH/IBK Nr. 221, Birkhäuser-Verlag Basel, ISBN 3-7643-5477-1.
- Steiger R. 1995:
Versuche an Fichtenkanthölzern: Biegemoment – Normalkraft – Interaktion.
Forschungsbericht ETH/IBK Nr. 209, Birkhäuser-Verlag Basel, ISBN 3-7643-5256-6.
- Steiger R. 1995:
Biege-, Zug- und Druckversuche an Schweizer Fichtenholz.
Forschungsbericht ETH/IBK Nr. 207, Birkhäuser-Verlag Basel, ISBN 3-7643-5195-0.
- Steiger R. 1994:
Einspannvorrichtung für Zugversuche an Holzproben grösseren Querschnitts.
Forschungsbericht ETH/IBK Nr. 204, Birkhäuser-Verlag Basel, ISBN 3-7643-5074-1.
- Steiger R. 1991:
Festigkeitssortierung von Kantholz mittels Ultraschall.
Holz-Zentralblatt 117:59. 985 – 989.
- Steiger R. 1991:
Festigkeitssortierung von Kantholz mittels Ultraschall.
Holzforschung und Holzverwertung 43:2. 40 – 46.