THE UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Curriculum Vitae for Faculty Members

1. **SURNAME**: Tannert **FIRST NAME**: Thomas **Initials**: **Date**: August 29, 2017

2. **PROGRAM:** Wood Engineering

3. **COLLEGE**: Science and Management

4. **PRESENT RANK:** Associate Professor **SINCE**: July 01, 2016

5. POST-SECONDARY EDUCATION

University or Institution	Degree	Subject Area	Dates
University of British Columbia, Vancouver	Ph.D.	Timber Engineering	04/2008
University of Bio-Bio, Concepción, Chile	M.Sc.	Wood Science & Technology	12/2002
Bauhaus-University, Weimar, Germany	Dipl.-Ing.	Structural Engineering	02/2001

(a) Title of Dissertations

- Ph.D.: “Structural performance of rounded dovetail connections”
- M.Sc.: “Study of nail laminated timber elements for residential construction”
- Dipl.-Ing.: “Fracture mechanics approach to calculate the capacity of mechanical joints”

(b) Special Professional Qualifications

- P.Eng. The Association of Professional Engineers and Geoscientists of BC (APEGBC) since 11/2012

*(c) Continuing Education**

- “International Faculty SoTL Leadership Program: UBC Certificate on Curriculum & Pedagogy in Higher Education - UBC Graduate Supervision Leaders Cohort“ Centre for Teaching, Learning and Technology, January – September 2015
- “International Faculty SoTL Leadership Program: Faculty Certificate on Curriculum & Pedagogy in Higher Education“ Centre for Teaching, Learning and Technology, September 2013 – May 2014
- “Faculty Instructional Skills Workshop“ Centre for Teaching, Learning and Technology, July 26–28 2011
- “Course Design Intensive” Centre for Teaching, Learning and Technology, June 6–10 2011
- “Grad Student Instructional Skills Workshop” Centre of Teaching and Academic Growth, July 20–24 2004
- “Professional Development Course for International Graduate Students” at Centre for Intercultural Communication, January–April 2004

* All continuing education activities that I attended (32 since starting my current position) are listed in my Teaching Dossier

6. EMPLOYMENT RECORD

(a) Prior to coming to UNBC

University, Company or Organization	Rank or Title	Dates
The University of British Columbia	Associate Professor	07/2016 – 12/2017
The University of British Columbia	Assistant Professor	04/2011 – 06/2016
Bern University of Applied Sciences, Switzerland	Research Associate	05/2008 – 03/2011
The University of British Columbia	Research Assistant	09/2003 – 04/2008
Biberach University of Applied Sciences, Germany	Research Assistant	05/2003 – 08/2003
University of Bío-Bío, Concepción, Chile	Research Assistant	03/2001 – 12/2002
Thyssen-Hünnebeck, Santiago, Chile	Technician	10/1997 – 04/1998

(b) At UBC

Rank or Title	Dates
Associate Professor, BC Leadership Chair	07/2016 – present

(c) Date of granting of tenure at UNBC: July 1 2016

7. LEAVES OF ABSENCE

University, at which Leave was taken	Type of Leave	Dates
The University of British Columbia	Leave without Pay or Benefit	07/2016 – 12/2017

8. TEACHING

(a) Areas of Special Interest and Accomplishments

I see teaching as my most important professional task, and being able to help students grow intellectually as the most rewarding aspect of my position. I truly enjoy teaching, and, consequently, I carry one of the highest teaching loads in the Faculty of Forestry. I believe that enthusiasm for teaching cannot be learnt, but that the skills to successfully teach can always be improved. Therefore, I continuously strive to improve my teaching as documented by the workshops and trainings I attended throughout my career (listed in my Teaching Dossier).

My teaching philosophy is learner centered: as the focus at universities shifted from delivering information to coaching students on how to assess its validity, the focus in my classes shifted away from lecturing towards facilitating an environment where students learn how to solve problems. I believe that traditional teaching techniques need to be adapted to encourage students to take ownership over their learning experience. In my classes, I adopt strategies to inspire students, to focus on their own work, to reflect upon which procedure to implement, and how to achieve success in the light of available resources.

I strongly believe in the power of motivating students and trust their ability to collaborate in projects if an appropriate framework is set. Team-Based-Learning (TBL) provides such a framework, it is a proven and successful approach to help students: i) develop team-working, problem-solving and life-long self-learning skills; ii) apply these skills to their tasks and projects; and iii) be successful in their future careers. In consequence, and accepting that particularly second year students often feel uncomfortable taking ownership over their learning experience, I completely revised the courses I teach at UBC and deliver them in the TBL format.

In recognition of my dedication to teaching, I received the “Top Teacher in Wood Science” award in 2015.

(b) Courses Taught at UNBC

Session	Course Number	Class Size	Hours Taught		
			Lectures	Tutorials	Labs
2017	IENG 613	10	16 x 1.5h	8 x 1.5h	1 x 4h
2017	IENG 723	10	16 x 1.5h	8 x 1.5h	
2017	IENG 731	10		8 x 1.5h	
2016	IENG 613	4	10 x 1.5h	5 x 1.5h	
2016	IENG 738	4	8 x 1.5h	4 x 1.5h	

UNBC Calendar descriptions

- IENG 613 Wood Design I: Topics include the behaviour and design of various types of wood-to-wood connections and wood to other material such as steel or concrete.
- IENG 723 Wood Design II: Detailed design for structural tasks for large and tall wood structures. Structural connections of wooden components with various materials as well as hybrid systems are discussed in detail.
- IENG 731 - Project Design: This course is the capstone project and can include various fields covered in the program. Students are encouraged to combine several topics to demonstrate integrated design skills.
- IENG 738 Analysis: Analysis of one or more aspects of wood or hybrid structures including the following: structural design; modern wood based, or composite materials; envelope design; or sustainable design.

(c) Courses Taught at UBC

Session	Course Number	Class Size	Hours Taught		
			Lectures	Tutorials	Labs
2016/2017	CIVL331[1]	117	8 x 1.5h	4 x 2h	
2016/2017	CIVL439	37	11 x 2.0h		
2016/2017	CIVL516[2]	15	11 x 2.0h		
2015/2016	CIVL331[1]	137	10 x 1.5h	4 x 2h	
2015/2016	CIVL439 /WOOD476	59	23 x 2.0h		1 x 2h
2015/2016	CIVL516[2]	13	23 x 2.0h		1 x 2h
2015/2016	CIVL517	19	13 x 3.0h		
2015/2016	WOOD282[3]	31	13 x 1.0h		4 x 2h
2014/2015	CIVL331[1]	136	10 x 1.5h	4 x 2h	
2014/2015	CIVL439 /WOOD476	60	24 x 2.0h		1 x 2h
2014/2015	CIVL516[2]	19	24 x 2.0h		1 x 2h
2014/2015	CIVL517	15	13 x 3.0h		
2014/2015	WOOD282[3]	18	13 x 1.0h		4 x 2h
2013/2014	CIVL231	179	25 x 1.5h	12 x 2h	
2013/2014	CIVL331[4]	124	4 x 1.5h		2 x 2h
2013/2014	CIVL439 /WOOD476	46	23 x 2.0h		1 x 2h
2013/2014	CIVL516[2]	18	23 x 2.0h		1 x 2h

2013/2014	CIVL517	19	13 x 3.0h		
2013/2014	WOOD282[3]	25	13 x 1.0h		4 x 2h
2012/2013	CIVL231	176	25 x 1.5h	12 x 2h	
2012/2013	CIVL331[4]	131	3 x 1.5h		
2012/2013	CIVL439 /WOOD476	41	25 x 1.5h		1 x 2h
2012/2013	CIVL516[2]	12	25 x 1.5h		1 x 2h
2012/2013	CIVL517	13	13 x 3.0h		
2011/2012	CIVL231	163	25 x 1.5h	12 x 2h	
2011/2012	CIVL331[1]	125	6 x 1.5h	2 x 2h	
2011/2012	CIVL439 /WOOD476	35	25 x 1.5h		1 x 2h
2011/2012	CIVL516[2]	12	25 x 1.5h		1 x 2h

[1] CIVL331 (teaching timber section of the course as official co-instructor)

[2] CIVL516 is co-taught with CIVL439

[3] WOOD282 (teaching mechanics section of the course as official co-instructor)

[4] CIVL331 (teaching timber section of the course, not officially listed co-instructor)

UBC Calendar descriptions

- CIVL231 Solid Mechanics II: “Deflection of beams, combined axial load and bending moment, inelastic bending, beam columns, principal axes and moments of inertia, biaxial stress and strain, Mohr’s circle”
- CIVL331 Introduction to Steel and Timber Design: “Introduction to limit states design of steel and timber structures: material properties, tension and compression members, beams, columns, and connections”
- CIVL439 Design of Timber Structures: “Design of timber structural elements using limit states design principles; joints and fasteners, sawn lumber and engineered products, light frame systems and shear walls”
- CIVL516 Behaviour of Timber Structures: “Behaviour of timber structural elements using limit states design principles; joints and fasteners, sawn lumber and engineered products, light frame systems and shear walls”
- CIVL517 Advanced Topics Timber Design: “Design of timber structures using limit states design principles; non-standard connectors, timber-concrete composites, cross-laminated timber and hybrid systems.”
- WOOD282 Wood Physics and Mechanics: “Wood-moisture relationships, transport phenomena, acoustical and electrical properties of wood; wood drying methods, strength properties of solid wood.”

(d) Graduate Students Supervised

Student Name	Program	Dept.	Year		Supervisory Role
			Start	Finish	
Maik Gehloff	Ph.D.	NRRES	09/2016		Supervisor
Ann Abraham	Ph.D.	Civil Eng.	09/2016		Co-supervisor
Hercend Mpidi Bita	Ph.D.	Wood Sc.	09/2015		Supervisor
Afrin Hossain	Ph.D.	Wood Sc.	01/2014		Supervisor
Md. Shahnewaz	Ph.D.	Civil Eng.	09/2013		Supervisor
Xiaoyue Zhang	Ph.D.	Wood Sc.	09/2012		Supervisor
Carmen Dipasquale	M.ASc.	Civil Eng.	01/2017		Co-supervisor
Guilio Fini	M.ASc.	Civil Eng.	01/2017		Co-supervisor
Kuldeep Kaushik	M.ASc.	Civil Eng.	09/2015		Supervisor
Marcel Hong	M.ASc.	Civil Eng.	09/2015	08/2017	Supervisor
Manu Moudgil	M.ASc.	Civil Eng.	01/2015	08/2017	Supervisor
Tiffany Simonet	M.ASc.	U de Mons	01/2016	12/2016	Co-supervisor
Dan Dela Peña	M.ASc.	Civil Eng.	09/2014	04/2016	Supervisor
Jiyoon Oh	M.ASc.	Civil Eng.	09/2014	04/2016	Supervisor
Adam Gerber	M.ASc.	Civil Eng.	09/2013	04/2016	Supervisor
Alexandra Cheng	M.ASc.	Civil Eng.	09/2013	11/2015	Supervisor
Enrique Gonzales	M.ASc.	Civil Eng.	09/2013	07/2015	Supervisor
Coralie Avez	M.ASc.	U de Mons	01/2014	12/2014	Co-supervisor
Michael Fairhurst	M.ASc.	Civil Eng.	09/2012	08/2014	Supervisor
Md Riasat Azim	M.ASc.	Civil Eng.	09/2012	08/2014	Supervisor
Tianyi Wu	M.ASc.	Wood Sc.	09/2012	08/2014	Supervisor
Hong Zhu	M.ASc.	Wood Sc.	09/2012	08/2014	Supervisor
Pedram Faghani	M.ASc.	Civil Eng.	09/2011	08/2013	Supervisor
Pooja Bhat	M.ASc.	Civil Eng.	09/2011	08/2013	Supervisor
Wenchang He	Ph.D.	Wood Sc.	01/2013	04/2017	Committee member
Shayesteh Haghdan	Ph.D.	Wood Sc.	01/2012	07/2015	Committee member
Johannes Schneider	Ph.D.	Civil Eng.	01/2012	07/2015	Committee member
Caleb Goertz	M.ASc.	Civil Eng.	01/2014	04/2016	Committee member
Kunqian Zhang	M.ASc.	Wood Sc.	01/2014	08/2016	Committee member
Max Closen	M.ASc.	Wood Sc.	04/2011	08/2012	Committee member

Awards received by students I supervised

- Md. Shahnewaz, UBC GSI Merit Award, 2016, Vancouver
- Afrin Hossain, Renewal of Faculty for the Future Fellowship, 2016, Schlumberger Foundation
- Hercend Mpidi Bita, 4yr Ph.D. fellowship, 2015-2019, UBC Vancouver
- Hercend Mpidi Bita, Faculty of Forestry Special Graduate Award, UBC Vancouver
- Adam Gerber, UBC GSI Merit Award, 2015, Vancouver
- Xiaoyue Zhang, Mitacs Ph.D. scholarship, 2015-2017, Vancouver
- Afrin Hossain, Renewal of Faculty for the Future Fellowship, 2015, Schlumberger Foundation
- Xiaoyue Zhang, Best Presenter award at UBC-Tongji symposium, 2015, Vancouver
- Adam Gerber, Catherine Lalonde Memorial Scholarship, 2014, Canadian Wood Council
- Md. Shahnewaz, 4yr Ph.D. fellowship, 2014-2018, UBC Vancouver
- Afrin Hossain, Graduate Global Leadership Fellowship, 2014-2017, UBC Vancouver
- Afrin Hossain, Mitacs Ph.D. scholarship, 2014-2016, Vancouver
- Afrin Hossain, Faculty for the Future Fellowship, 2014, Schlumberger Foundation
- Afrin Hossain, 1st place in student competition “Cecobois Challenge” during World Conference of Timber Engineering, August 10-14, Quebec City
- Alex Cheng, 3rd place in student competition “Cecobois Challenge” during World Conference of Timber Engineering, August 10-14, Quebec City
- Adam Gerber, 1st place in Architectural Engineering Design Competition, 2014, Fast&Epp, Vancouver
- Md Riasat Azim, UBC GSI Merit Award, 2014, Vancouver
- Michael Fairhurst, UBC GSI Merit Award, 2014, Vancouver
- Ilana Danzig, BCIC-Mitacs Commercialization Voucher scholarship, 2013, Vancouver
- Pooja Bhat, UBC GSI Merit Award, 2013, Vancouver
- Xiaoyue Zhang, Chinese Scholarship Council Ph.D. Award, 2012-2016, Vancouver
- Pedram Faghani, 1st place in Architectural Engineering Design Competition, 2012, Fast&Epp, Vancouver
- Rahul Meena, SIKA Industrial experience trip award, 2011, Zurich, Switzerland
- Simon Hehl, 2nd place Innovation price for most innovative bachelor thesis, 2010, Burgdorf, Switzerland

(d) Continuing Education Activities (provided)

- “Performance and applications of self-tapping screws” Session at WoodWORKS!BC Timber Connection Design Workshop, December 02 2016 Victoria, Canada
- “Performance and applications of adhesive connections” Session at WoodWORKS!BC Timber Connection Design Workshop, December 02 2016 Victoria, Canada
- “Timber Concrete Composites”, Four sessions at WoodWORKS!BC Mass-Timber Workshop, February 18-19 2016, Vancouver, Canada.
- “Performance and applications of self-tapping screws”, SEABC Monthly Seminar, April 15 2015, Vancouver, Canada
- “Performance and applications of self-tapping screws” Session at WoodWORKS!BC Timber Connection Design Workshop, February 19 – 20 2015, Kelowna, Canada
- “Performance and applications of adhesive connections” Session at WoodWORKS!BC Timber Connection Design Workshop, February 19 – 20 2015, Kelowna, Canada

- "Timber construction research" Session at CAWP Digital Design and Construction of Timber Structures, June 12 2014, Vancouver, Canada
- "Performance and applications of self-tapping screws" Session at WoodWORKS!BC Timber Connection Design Workshop, January 31 – February 01 2013, Richmond, Canada
- "Performance and applications of adhesive connections" Session at WoodWORKS!BC Timber Connection Design Workshop, January 31 – February 01 2013, Richmond, Canada
- "Assessment and monitoring of timber structures" Session at UBC Timber Engineering Technical Workshop at BC Log & Timber Builders annual conference, March 23 2012, Little Shuswap Lake, Canada

(e) Other

Post-Doctoral fellows supervised

- Mehdi
- Xiaoyue
- Cristiano Loss
- Johannes Schneider: "Design of connections for seismic force resistant cross-laminated-timber walls", since July 2015

Other Training of Graduate Students

- Maryse Campeau (M.Eng. Civil Eng.): "Long-term performance of timber-concrete composites" Directed studies advisor, September 2016 – April 2017
- Chelsea Olsen (M.Eng. Integrated Wood Design): "Reinforcement of Glulam beams with holes" Project advisor, September – December 2016
- David Hanna (M.Eng. Integrated Wood Design): "Timber connections combining fasteners with different stiffness" Project advisor, September – December 2016
- Eytan Fiszman (M.Eng. Civil Eng.): "Capacity of self-tapping screw assemblies" Directed studies advisor, May – August 2015
- Jessica Hunter (M.Arch. SALA): "Free-form structures" Project supervisor, April 2014 – March 2015
- Stevan Gavrilovic (M.ASc. Civil Eng.): "Reliability based design optimization using DDM enabled finite elements" Second reader M.ASc. thesis, July 2015
- Vasantha Ramani (M.ASc. Civil Eng.): "Review, implementation and demonstration of dynamic analysis and ground motion models" Second reader M.ASc. thesis, July 2015
- Alfred Larsen (M.ASc. Civil Eng.): "Risk minimization with application to FFTT timber construction" Second reader M.ASc. thesis, December 2014
- Robert Perret (M.Eng. Civil Eng.): "Moment connections for timber structures" Directed studies advisor, January – April 2014
- Ilana Danzig (M.Eng. Civil Eng.): "Design of shear connection in CLT panels with self-tapping screws" Directed studies advisor, April – August 2013
- Kyle Lightfoot (M.Eng. Civil Eng.): "Lateral design of residential wood buildings" Directed studies advisor, September – December 2012
- Christian Schmitt (M.Arch. SALA): "Critical review of the housing reconstruction after the February 2010 earthquake in Chile" Project supervisor, January – December 2012
- Rodrigo Cepeda (M.Arch. SALA): "Critical review of the housing reconstruction after the February 2010 earthquake in Chile" Project supervisor, January – December 2012

- Amir Lorzadeh (M.ASc. Civil Eng.): ”Experimental study to investigate compression failures of thin concrete walls” Second reader M.ASc. thesis, October 2012
- Maik Gehloff (M.ASc. Wood Sc.): ”Use of mineral fibers as reinforcement in wood and wood composites connections” Directed studies advisor, April – September 2011

Member of PhD comprehensive examination committees

- Saeid Allahdadian: “Structural Health Monitoring of Infrastructure”, UBC Civil Eng., October 30 2015
- Mohammad Shahidul Islam: “Limit State design of I-joists”, UBC-O Engineering, January 08 2015
- Yuxin Pan: “Seismic design of Structures”, UBC Civil Eng., April 30 2014
- Solace Sam-Brew: “Bamboo structural wood composites”, UBC Wood Science, May 09 2014
- Sepideh Ashtari: “Performance-based assessment of life-line bridges”, UBC Civil Eng., April 30 2014
- Saeid Allahdadian: “Topology optimization for structural design”, UBC Civil Eng., February 24 2014

International Exchange Students supervised

- Alexander Dyck: “Numerical investigation on timber joints” RISE Program DAAD project CA-EN-1123, exchange student from Karlsruhe Institute of Technology, August – December 2015
- Mariana Ramírez Pérez: “Reliability analysis of CLT connections” MITACS Globalink, exchange student from Universidad Michoacana de San Nicolás de Hidalgo Morelia, México, May – July 2015
- Filipe Cassiano: “Experimental testing of CLT connections” Science without borders exchange student, May – August 2015
- Paulo Cassiano: “Experimental testing of CLT connections” Science without borders exchange student, May – August 2015
- Thomas Knauer: “Numerical investigation on timber joints” RISE Program DAAD project CA-EN-036, exchange student from Technical University Munich, August – October 2014
- Kuldeep Kaushik: “Wind analysis of tall timber hybrid structures” MITACS Globalink, exchange student from Assam Engineering College, July – October 2014
- Ruthwik Lakshman: “Shear connections in cross-laminated-timber” MITACS Globalink, exchange student from India National Institute of Technology, August – October 2014
- Manuel Fekter: “Numerical investigation on Timber Contact Joints” RISE Program DAAD project CA-EN-2070, exchange student from Hamburg University of Technology, August – September 2013
- Christoph Paul Schimanski: “Sustainable disaster relief housing” RISE Program DAAD project CA-EN-1567, exchange student from Hamburg University of Technology, September – October 2012
- Katrin Kenzlers: “Determination of Weibull parameters of Canadian wood species” RISE Program DAAD project CA-EN-1567, exchange student from Clausthal University of Technology, August – October 2012

Undergraduate Students supervised

- Saman Beheshti: “Cross-laminated-timber” Reader WOOD493 thesis, 2013
- Bryn Endacott: “Creep behaviour of glued timber concrete composite” Directed study, 2013
- Shikai Xu: “A Study on CLT and its possible applications in North America” Reader WOOD493 thesis, 2013
- Chantelle Grills: “Prefabricated housing and Passivhaus” Reader WOOD493 thesis, 2013
- Junyi Li: “General concept of wood frame buildings” Reader WOOD493 thesis, 2013
- Kenneth Chow: “Long-term bridge monitoring” Undergraduate research assistant, 2012
- Amir Garekani: “Experimental investigation of timber joints with glued-in rods” NSERC Undergraduate Student Research Award, 2012

- Wilson Kit: “Cross-Laminated-Timber for Relief Housing” Advisor WOOD493 thesis, 2012
- Dominic Yun: “The potential value of cross-laminated-timber in Korean residential and commercial market” Reader WOOD493 thesis, 2012

Students co-supervised at Bern University of Applied Sciences

- Liebhold P “Assessment of timber bridges” 2011
- Koller D “Digital process chain in the design of complex structures” 2010
- Zopfi A “Optimization of moment resisting timber frames“ 2010
- Keller N and Frei R “Reinforced rounded dovetail joints“ 2010
- Heinzer R “Comparison of floor systems for school buildings in Great Britain“ 2010
- Oppel M “Meso-mechanical modelling of ultra-light-weight concrete” 2010
- Meena R “Experimental investigation on adhesively bonded and bolted FRP joints” 2010
- Reinhart R “Investigations on the creep behavior of a timber-concrete-composite beam” 2010
- Gadais Q “Effect of Chamfers on the Strength of Adhesively Bonded Joints” 2010
- Schwendimann M “Adhesively bonded trusses” 2009
- Zweifel A and Zwicker P “Glued joints in timber construction“ 2009
- Hehl S “Adhesively bonded joints composed of wooden adherends“ 2009
- Orsoni D “Temperature dependent strength of wood welded joints” 2009
- Zihlmann C “Comparison of roof-systems for commercial and industrial buildings with timber solutions” 2009

Courses taught at Bern University of Applied Sciences

- “Wood-concrete-composite design and construction” (co-lecturer) 2010
- “Numerical modelling in structural engineering” 2010
- “Scientific and technical communications” (creation of new course) 2009
- “Numerical modelling in structural engineering” (creation of new course) 2009

Other teaching activities

- Teaching Assistant at Faculty of Forestry, UBC, 09/2004 – 04/2008; Advanced Biometrics (4 terms), Timber Structures Design (3 terms), Wood Composites (2 terms), CAD/CAM (2 terms)
- Instructional Assistant at Centre for Intercultural Communication, UBC, 09/2005 - 03/2006, Professional Development course for International Graduate Students
- Counselor at a youth camp, Vermont, USA, June - September 1993, 1994, 1995, 1996, 1998
- Coach for competitive youth teams & adult recreation at Tennis Club, Eisenach, Germany, 1991 – 2001

Teaching grants

- Teaching and Learning Enhancement Fund Grant “Enhancing student learning through next-generation digital wood fabrication“; $17,500, April 2014 – March 2015.
- Co-applicant to UBC Flexible Learning Initiative Grant “Development of instructional videos and online resources for Civil & IGEN Engineering laboratory courses” Main applicant: Nobo Yonemitsu; $66,135, July 2013 – January 2016.

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishments

My most significant research contributions are:

i) The development of design methods for timber joints, where I first studied the behaviour of rounded dovetail joints and proposed the concept of multi-axial stress volume integrals. Subsequently, I adapted a probabilistic design method for joints, implemented it into a numerical post-processing routine, and benchmarked it with experiments on adhesively bonded joints, rounded dovetail joints, welded joints, hybrid joints in fibre-reinforced polymers, and structural systems. The research created significant industry interest, follower projects, grants from the European Cooperation in Science and Technology (COST), the Swiss National Science Foundation (SNF) and NSERC, and 15 peer reviewed journal publications.

ii) The assessment and monitoring of timber structures where I was able to secure a number of equipment and research grants at the Bern University of Applied Sciences, contributed to multiple conferences, published 8 peer reviewed papers, and co-edited the Springer book “In-situ Assessment of Structural Timber”. Furthermore, I established two international research networks: 1) the European COST Action FP1101 “Assessment and Monitoring of Timber Structures”, and 2) the International RILEM committee RTE “Reinforcement of Timber Elements” which I chaired from 2011 to 2013. These networks bring together experts from different specialties from industry and academia to develop, harmonize, and disseminate knowledge and technologies that enhance the reliable assessment, monitoring, and reinforcement of timber.

iii) The design of hybrid structures, where I, since starting my current position at UBC, have obtained a series of research grants as listed in the following and built a research team to address the challenges of using timber in non-residential applications. My team is investigating the use of timber-steel composite walls in the construction of mid-rise and high-rise buildings, as well as the efficient design of timber-concrete composite floors. We also research the relatively unexplored question of how complex hybrid components can be efficiently broken down into constructible units, and to show that manufacturing these is economically viable.

(b) Research or equivalent grants (grants were obtained competitively (C) or non-competitively (NC))

Granting Agency	Subject	Comp	Total	Years	Principal Investigator	Co-Investigator(s)
Government of Canada	Canada Research Chair Tier II: “Hybrid Wood Structures Engineering”	C	$500,000	2017 – 2022	T. Tannert	
Natural Sciences and Engineering Research Council Canada (NSERC)	Discovery grant (DG): “Wood-based hybrid construction”	C	$170,000	2017 – 2022	T. Tannert	
British Columbia Innovation Council (BCIC)	Ignite grant: “Innovative Hold-Down Solutions for Mass Timber in Multi-Storey Residential Buildings”	C	$325,000 (including matching funds)	2017-2020	T. Tannert	S. Kuan (FPInnovations)
British Columbia Innovation Council (BCIC)	Prefabricated Commercial Mass Timber Wall Panels	C	$380,000 (including matching funds)	2017-2019	T. Tannert	M. Duerrfeld (BC Passivehouse)

Mathematics of Information Technology And Complex Systems (MITACS)	Elevate Post.Doc. Program: “Development of Design Guidance for Tall Wood-based Hybrid Buildings”	C	$110,000	2017-2019	T. Tannert	E. Karsh (Equilibrium)
British Columbia Forestry Innovation Investment (FII)	Wood First framework: “Development of high-capacity hold-down for mass-timber buildings”	C	$25,000	2017-2018	T. Tannert	
British Columbia Forestry Innovation Investment (FII)	Wood First framework: “Serviceability Performance of Timber-Concrete-Composite Floors”	C	$26,000	2017-2018	T. Tannert	
University of Northern British Columbia	Operating Grant	NC	$150,000	2016-2021	T. Tannert	
University of Northern British Columbia	“Start-up fund”	NC	$100,000	2016-2019	T. Tannert	
Australian Research Council	“Research hub for advanced solutions to transform tall timber buildings”	C	$1,575,000	2016-2018	J. Torero Cullen	J. Loy, T. Tannert and 13 others
International Joint Research Lab of Earthquake Engineering	“Innovative solution for hybrid wood-concrete tall buildings“	C	$180,000	2016-2018	C. Ventura	H. Xiong, T. Tannert
Natural Sciences and Engineering Research Council Canada (NSERC)	Engage grant: “Truss-plate connected timber-concrete-composite floors”	C	$25,000	2016	T. Tannert	G. Dhesi (West Coast Truss Ltd.)
Mathematics of Information Technology And Complex Systems (MITACS)	Accelerate Ph.D. Program: “Design guidance for tall-timber structures”	C	$90,000	2015-2018	T. Tannert	E. Karacabeyli (FPInnovations)
Mathematics of Information Technology And Complex Systems (MITACS)	Elevate Post.Doc. Program: “Design of connections for seismic force resistant cross-laminated-timber walls”	C	$110,000	2015-2017	T. Tannert	E. Karacabeyli (FPInnovations)

Natural Sciences and Engineering Research Council Canada (NSERC)	Engage grant: “Performance of nail-laminated composite floors”	C	$25,000	2015-2016	T. Tannert	M. Robertson WHM Engineers
Mathematics of Information Technology And Complex Systems (MITACS)	Accelerate MASc Program: “Lateral load carrying capacity of self-tapping screw assembly”	C	$15,000	2015-2016	T. Tannert	M. Closen (MyTiCon)
Natural Sciences and Engineering Research Council Canada (NSERC)	Research Tools and Instruments (RTI): “Robotic milling cell”	C	$150,000	2015	T. Tannert	G. Smith F. Lam T. Haukaas
British Columbia Forestry Innovation Investment (FII)	Wood First framework: “UBC tall wood building case study”	C	$65,000	2015	A. Cayuela	T. Tannert S. Staub-French
British Columbia Forestry Innovation Investment (FII)	Wood First framework: “Digital design and fabrication using automated heavy timber processor”	C	$34,000	2015	T. Tannert	
Natural Sciences and Engineering Research Council Canada (NSERC)	Engage grant: “Ductile glued moment-resisting timber connections”	C	$25,000	2015	T. Tannert	T. Leung Leung Structural Engineering
Natural Sciences and Engineering Research Council Canada (NSERC)	Engage grant: “Long-term performance of timber-concrete-composite floors”	C	$25,000	2015	T. Tannert	R. Malzcyk (Equilibrium)
Canada Foundation for Innovation (CFI)	LOF equipment maintenance grant”	C	$22,500	2014 – 2017	T. Tannert	
Social Sciences and Humanities Research Council Canada (SSHRC)	Insight Development Grant “Learning as boundary crossing practice”	C	$74,975	2014 – 2016	H. Shan	J. Jenness, S. Nashon, K. Sheehan, T. Tannert
Mathematics of Information Technology And Complex Systems (MITACS)	Accelerate Ph.D. Program: “Design guidance for cross-laminated timber structures using self-tapping screws”	C	$90,000	2014-2016	T. Tannert	M. Closen (MyTiCon)

Natural Sciences and Engineering Research Council Canada (NSERC)	Engage grant: “Laminated-strand-lumber in timber-concrete-composite floors”	C	$25,000	2014 – 2015	T. Tannert	A. Teasell (Weyerhaeuser)
British Columbia Forestry Innovation Investment (FII)	Wood First framework: “Investigation of timber-concrete composites”	C	$42,000	2014 – 2015	T. Tannert	
British Columbia Forestry Innovation Investment (FII)	Wood First framework: “Shell structures in wood”	C	$62,000	2014 – 2015	A. Meyboom T. Tannert,	O. Neumann, I. MacDonald
Hampton Research Grant	“Constitution of transnational social space: Migrant women managing careers in sciences and engineering”	C	$24,949	2014 – 2015	H. Shan	S. Nashon, J. Jenness, Z. Liu, K. Sheehan, T. Tannert
Natural Sciences and Engineering Research Council Canada (NSERC)	Engage grant: “Ductile glued timber connections”	C	$25,000	2014	T. Tannert	J. Boys (Nicola Logwork)
Canada Foundation for Innovation (CFI)	Leaders Opportunity Fund (LOF): “Computer-numerically-controlled timber processor”	C	$475,469 (including matching funds)	2013	T. Tannert	
Natural Sciences and Engineering Research Council Canada (NSERC)	NewBuildS network grant: Analysis of “FFTT” Timber-steel-hybrid-system	C	$49,000	2013 – 2014	T. Tannert	
British Columbia Forestry Innovation Investment (FII)	Wood First framework: “Seismic analysis of novel timber-steel-hybrid system”	C	$40,000	2013 – 2014	T. Tannert	
Natural Sciences and Engineering Research Council Canada (NSERC)	Engage grant: “Performance of timber rivets in laminated veneer lumber”	C	$25,000	2013	T. Tannert	B. Hockey, (Timber Sys.)

Natural Sciences and Engineering Research Council Canada (NSERC)	Engage grant: "Seismic analysis of novel timber-steel-hybrid-system"	C	$24,800	2013	T. Tannert	M. Popovski (FPInnovations)
Natural Sciences and Engineering Research Council Canada (NSERC)	Discovery grant (DG): "Probabilistic design of timber joints"	C	$120,000	2012 – 2017	T. Tannert	
Swiss National Science Foundation (SNSF)	NRP66 Resource Wood "Design tool for adhesively bonded timber joints"	C	353,000 CHF (0% at UBC)	2012 – 2014	A. Vasilopoulos	T. Vallée, S. Franke, T. Tannert
Natural Sciences and Engineering Research Council Canada (NSERC)	Engage Grant: "Timber joints with glued-in FRP rods"	C	$24,600	2012	T. Tannert	S. Bamford (Structurlam)
Natural Sciences and Engineering Research Council Canada (NSERC)	Interaction Grant: "Wood design and construction network"	NC	$1,870	2012	T. Tannert	
Natural Sciences and Engineering Research Council Canada (NSERC)	Research Tools and Instruments (RTI): "Fatigue rated dynamic materials test system"	C	$132,415	2012	N. Banthia	T. Tannert and 6 others
UBC Office VP Research & International	Martha Piper Research Grant: Sustainable disaster relief housing	C	$23,000	2012	T. Tannert	O. Neumann
The University of British Columbia	"Start-up fund"	NC	$75,000	2011 – 2013	T. Tannert	

Research or equivalent grants prior to coming to Canada

Bern University of Applied Sciences	"In-situ-use of portable X-Ray equipment"	NC	20,000 CHF	2011	T. Tannert	M. Lehmann
Eur. Cooperation in Science and Technology (COST)	Implementation of a probabilistic method to predict the capacity of dowel type timber joints	C	3,200 Euro	2010	T. Tannert	P. Quenneville
Swiss Ministry of Environment (BAFU)	"Assessment and reinforcement of glued-laminated timber"	C	550,000 CHF	2010 - 2011	K. Richter	T. Tannert, and 8 others

Swiss Ministry of Environment	"Road surfaces on timber bridges"	C	60,000 CHF	2010 - 2011	A. Müller	M. Vogel, T. Tannert
Bern University of Applied Sciences	"In-situ-assessment of structural timber"	NC	30,000 CHF	2010	T. Tannert	
Swiss Com. for Technology & Innovation (CTI)	"Swiss wood concrete deck"	C	405,000 CHF	2009 - 2011	T. Vallée	T. Tannert, and 4 others
Swiss Ministry of Environment	"Long-term monitoring of timber bridges"	C	75,000 CHF	2009 - 2011	A. Müller	T. Tannert, M. Vogel
Equipment investment fund, Bern University of Applied Sciences	"Bragg meter, hydraulic clamps, portable x-ray, video-extensometer, remote data transfer"	NC	195,000 CHF	2009 - 2010	T. Tannert	
Bern University of Applied Sciences	"Shear strength of glued-laminated timber"	NC	20,000 CHF	2009	T. Tannert	
Bern University of Applied Sciences	"Meso-mechanical numerical analysis of concrete fracture"	NC	30,000 CHF	2008 - 2009	T. Vallée	T. Tannert, and 2 others

(c) Research or equivalent contracts

3. "Performance Network for the UBC tall wood student residence project" $200,000 (2015-2017)
2. "Tension test for steel tube couplers", Contract work for Bocci Canada and Fast+Epp. (2015)
1. "Amargo Hardwood tests according to ASTM D143", Contract work for Coast Eco Timber Panama. (2014)

(d) Invited Presentations *(presenter underlined)*

29. Tannert T (2017) "Timber Concrete Composites – practical applications", 1st Holzbau Pacific Northwest conference, February 23-24, Vancouver, Canada.
28. Tannert T (2016) " Erbebenverankerungen für mehrgeschossige Massivholzkonstruktionen ", 22nd International Internationales Holzbau-Forum 2016 (IHF), December 8, Garmisch-Partenkirchen, Germany.
27. Tannert T (2016) "Innovative Solutions for the 21st Century: Research into Practice". 6th Congreso Internacional de Conocimiento e Innovacion, October 31 – November 1 2016, Bogota, Columbia.
26. Tannert T (2015) "Geschraubte Schubverbindungen in Brettsperrholz", 21st International Internationales Holzbau-Forum 2015 (IHF), December 4, Garmisch-Partenkirchen, Germany.
25. Tannert T (2015) "Timber concrete composite solutions", 12th annual Global Buyers Mission (GBM) and Wood First Conference, September 11, Whistler, Canada.
24. Tannert T (2015) "Tall wood and hybrid structures engineering", Research Seminar, The University of Northern British Columbia, June 9, Prince George, Canada.
23. Tesmafarian S, Tannert T (2015) "Hybrid-buildings wood-steel", NewBuildS National workshop, May 28, Vancouver, Canada.

22. Tannert T (2015) “Application of self-tapping screws in cross-laminated-timber”, Oregon State University, April 30, Corvallis, OR, USA.
21. Tannert T (2014) “La construcción con la madera en Canada”, University of Bio-Bio, December 08, Concepción, Chile.
20. Tannert T (2014) “Connections in cross-laminated-timber”, University of Santiago, December 01, Santiago, Chile.
19. Tannert T (2014) “Design of connections and reinforcement with glued-in rods”, Timber Frame Engineering Council (TFEC) Symposium, August 07, Manchester, NH, USA.
18. Tannert T (2014) “New developments in timber engineering research”, Research Seminar, Japan Forest Products Research Institute (FFRPI), May 13, Tsukuba, Japan.
17. Tannert T (2014) “Timber engineering research in Canada and beyond”, Research Seminar, The University of Northern British Columbia, February 24, Prince George, Canada.
16. Tannert T (2014) “Wood hybrid structural systems”, Western Canada Fibre Network workshop, February 20, Vancouver, Canada.
15. Tannert T (2013) “Assessment and reinforcement of glulam beams”, Keynote lecture at COST FP1101 Training school “Assessment and reinforcement of timber elements” December 9 -13, Mons, Belgium.
14. Tannert T, Branco JM, Riggio M (2013) RILEM TC “Reinforcement of timber elements in existing structures”, Plenary session of 2nd International Conference on Structural Health Assessment of Timber Structures (SHATIS’13) September 4-6, Trento, Italy.
13. Tannert T (2013) Teaching Timber Design at UBC. Professors Conference, Canadian Wood Council and WoodWorksBC!, February 8-9, Vancouver, Canada
12. Tannert T (2012) Timber joints with glued-in rods. Workshop of COST Action FP1004 at 8th International Conference on Structural Analysis of Historical Constructions (SAHC), October 18, Wroclaw, Poland
11. Tannert T (2011) Assessment, reinforcement and monitoring of timber structures. Hearings of European Cooperation in Science and Technology (COST) FPS Domain Committee, March 3, Istanbul, Turkey
10. Tannert T, Vallée T, Hehl S (2010) Probabilistic capacity prediction of adhesively bonded FRP and timber joints. Ansys users meeting, November 3-5, Aachen, Germany.
9. Tannert T, (2010) timber-concrete-composites. Teaching Seminar, The University of British Columbia, May 7, Vancouver, Canada.
8. Tannert T, (2010) Timber in building design & construction. Research Seminar, The University of British Columbia, May 6, Vancouver, Canada.
7. Tannert T, Hehl S, Vallée T (2010) Experimentelle und numerische Untersuchungen an geklebten und gedübelten Holzfachwerken, SAH Statusseminar, April 28, Böttstein, Switzerland.
6. Tannert T, Hehl S, Vallée T (2010) Tragende geklebte Verbindungen im Holzbau: Erfahrungen aus zwei Jahren Forschung, SAH Statusseminar, April 28, Böttstein, Switzerland.
5. Tannert T, Kasal B (2009) In situ assessment of structural timber. 63rd RILEM Week - 2nd Int RILEM Workshop on Concrete Durability and Service Life Planning, September 6-10, Haifa, Israel.
4. Tannert T, Vallée T (2009) Probabilistische Methoden zur Anschlussbemessung. SAH Statusseminar, April 22, St Loup, Switzerland.
3. Tannert T and Sigrist C (2009) Entwicklung einer integralen Prozesskette für die Brettschichtholzherstellung. SAH Statusseminar, April 22, St Loup, Switzerland.
2. Tannert T (2008) Self-tapping screws as reinforcement in timber structures. Timber Framers Guild Western Conference, April 17-20, Coeur d'Alene, USA.

1. Tannert T (2006) Structural performance of rounded dovetail connections. Timber Framers Guild Western Conference, April 20-23, Parksville, Canada.

(e) Other Presentations *(presenter underlined, graduate students supervised in bolt)*

27. T Vallée, T Tannert, M Albiez, RD Adams (2017) Are probabilistic methods a way to get rid of fudge-factor? Adhesive Bonding (AB2017), July 4, Porto, Portugal.
26. Tannert T (2016) Assessment and Monitoring of Timber Structures, Guest lecture CIVL 598A "Structural Health Monitoring", February 25, Vancouver, Canada.
25. Tannert T (2015) Timber material properties, Guest lecture CIVL 320 "Civil Engineering Materials" November 05, Vancouver, Canada.
24. **Hossain A**, Closen M, Tannert T (2015) Shear connections with self-tapping screws for cross-laminated-timber panels, Structural Engineers Association of California Convention, September 10, Seattle, USA.
23. **Gonzales E**, Tannert T, **Avez C** (2015) Timber joints with multiple glued-in steel rods, Adhesive Bonding (AB2015), July 2, Porto Portugal.
22. Vallée T, Fecht S, Grunwald C, Tannert T (2015) Design and dimensioning of a complex timber-glass hybrid structure: the IFAM pedestrian bridge, Adhesive Bonding (AB2015), July 2, Porto, Portugal.
21. **Hossain A,** Tannert T (2015) Performance of Shear Connections with Self-Tapping-Screws for Cross-Laminated-Timber Panels, 5th Tongji-UBC Symposium, May 4, Shanghai, China.
20. **Zhang X**, Tannert T (2015) Ductility study of the timber-steel hybrid structures, 5th Tongji-UBC Symposium, May 4, Shanghai, China.
19. Tannert T (2015) Research on Timber-Concrete-Composites, CAWP Open House, January 29, Vancouver, Canada.
18. Tannert T (2014) Building with timber in Canada - new innovations", Presentation for Finish Forest Owners Association, November 11, Vancouver, Canada.
17. Tannert T (2014) Timber engineering research at UBC", Presentation for FII and Industry partners, October 1, Vancouver, Canada.
16. Tannert T (2014) Evaluating the impact of changes to team size to the effectiveness of Team-Based-Learning format" Hawaii University International Conferences, June 16, Honolulu, USA.
15. **Fairhurst M, Zhang X**, Tannert T (2014) Nonlinear Dynamic Analyses of FFTT Timber-steel-hybrid system" NewBuildS workshop, May 7, Vancouver, Canada.
14. Tannert T (2014) Teaching and Research in Timber Design, CAWP Open House, January 30, Vancouver, Canada.
13. **Zhang X**, Fairhurst M, Tannert T (2014) Lateral design of novel hybrid system FFTT, Poster presentation at Western Canada Fibre Network workshop, February 20, Vancouver, Canada.
12. **Zhu H, Wu T**, Tannert T (2014) Performance of high-strength timber joints, Poster presentation at Western Canada Fibre Network workshop, February 20, Vancouver, Canada.
11. Tannert T, **Endacott B**, Brunner M, Vallée T (2014) Long-term Performance of Adhesively Bonded Timber-Concrete-Composites" Adhesive Bonding (AB2013), July 4, Porto, Portugal.
10. Vallée T, Fecht S, Tannert T, Correia JR (2013) Towards Adhesively bonded multifunctional structures in civil engineering, Adhesive Bonding (AB2013), July 4, Porto, Portugal.
9. Tannert T (2013) Structural health monitoring of timber structures, Structural Health Monitoring workshop at Dept. of Civil Engineering, March 08, Vancouver, Canada.

8. Tannert T (2012) Assessment and monitoring of timber structures, Structures Seminar at Dept. of Civil Engineering, November 15, Vancouver, Canada.
7. Tannert T (2012) Research on Timber Joints and Structures, Celebrate Research Week at Faculty of Applied Sciences, March 7, Vancouver, Canada.
6. Tannert T (2011) Probabilistic design of timber joints under brittle failure modes, Reliability Seminar at Dept. of Civil Engineering, September 20, Vancouver, Canada.
5. Lehmann M, Grosse M, Tannert T (2010) Multi surface plasticity model for timber bending members, The European Committee on Computational Solids and Structural Mechanics, May 18, Paris, France.
4. Vallée T, Tannert T (2010) Bemessung von geklebten Anschlüssen von GFK Bauteilen, Fachtagung FRP, November 11, Burgdorf, Switzerland.
3. Vallée T, Tannert T (2009) Multifunctional hybrid GFRP structures, 3rd Rosenheim Colloquium Advanced Materials and Applications, November 26, Rosenheim Germany.
2. Tannert T (2006) Traditional timber joinery as value added building components, Graduate Student Interdisciplinary Conference, March 10, Vancouver Canada.
1. Marcus J, Tannert T, Rosales V (200) Tests on Stress Laminated Timber Decks, Latin American congress on use of timber in infrastructure, December 2, Santiago Chile.

(f) Other

- Non-COST country institution participant in COST Action FP1402 “Basis of structural timber design - from research to standards” November 2014 – present
- Initiated MoU between UBC and University de Mons, Belgium to “Encourage cooperation between the Institutions in the areas of Timber Engineering and Wood Mechanics” December 2012
- Proposer International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM) Technical Committee 245-RTE “Reinforcement of Timber Elements in Existing Structures”
- Proposer European Cooperation in Science and Technology (COST) Action FP1101 “Assessment, Reinforcement and Monitoring of Timber Structures” Action composed of participants from 22 countries
- Non-COST country institution participant in COST Action FP1101 “Assessment, reinforcement and monitoring of timber structures” November 2011 – present
- Contribution to proposal COST Action FP1004 “Enhance mechanical properties of timber, engineered wood products and timber structures”
- Non-COST country institution participant in COST Action FP1004 “Enhance mechanical properties of timber, engineered wood products and timber structures” March 2011 – April 2015
- Participant in COST Action E53 “Quality of wood products” 2008 – 2010
- Participant in COST Action E55 “Reliability of timber structures” 2008 – 2010
- Short term Scientific Mission ““Implementation of a probabilistic method to predict the capacity of dowel type timber joints” at The University of Auckland, New Zealand, supported by COST, September 2010

(g) Conference Committee Participation

- Member Scientific Committee, 3rd Int Conference on Adhesive Bonding (AB2017) Porto, Portugal, July 6-7 2017
- Chair Special Session on “Innovative Mass Timber and Timber Hybrid Structural Systems” at IUFRO 2017 All Division 5 Conference, Vancouver, Canada, June 12-16 2017
- Chair Special Session on “Progress in Innovative Mass Timber and Timber Hybrid Structural Systems” at ASCE Structures Congress, Denver, USA, April 6-8 2017

- Co-Chair Special Session on “Structural performance and seismic design of wood constructions” at World Conference on Earthquake Engineering (WCEE 2017) Santiago, Chile, January 9-13 2017
- Member Scientific Committee World Conference on Timber Engineering (WCTE 2016) Vienna, Austria, August 22-25 2016
- Co-Chair Mini-Symposium on “Teaching timber design” at Committee World Conference on Timber Engineering (WCTE 2016) Vienna, Austria, August 22-25 2016
- Member Scientific Committee, 7th Int Conference on Advanced Composite Materials in Bridges and Structures, ACMBS-VII, Vancouver, Canada, August 22-24 2016.
- Member Scientific Committee, 12th Int Conference on Applications of Statistics and Probability in Civil Engineering (ICASP12) Vancouver, Canada, July 12-15 2015
- Member Scientific Committee, 3rd Int Conference on Adhesive Bonding (AB2015) Porto, Portugal, July 2-3 2015
- Member Organizing and Scientific Committee, 7th Int Conference on Fiber Reinforced Polymer Composites in Civil Engineering (CICE 2014) Vancouver, Canada, August 20-22 2014
- Member Scientific Committee World Conference on Timber Engineering (WCTE 2015) Quebec City, Canada, August 10-14 2015
- Member Scientific Committee, Materials and Joints in Timber Structures – Recent Advancement of Technology (RILEM conference), Stuttgart, Germany, October 8-10 2013
- Member Scientific Committee, 2nd Int Conference on structural health assessment of timber structures (SHATIS ‘13), Trento, Italy, September 4-6 2013
- Member Scientific Committee, World Conference on Timber Engineering (WCTE 2012) Auckland, New Zealand, July 16-19 2012
- Member Scientific Committee, Int Conference Structural Analysis of Historical Constructions (SAHC 2012) Wrocław, Poland, October 15-17 2012
- Member Scientific Committee, 1st Int Conference on structural health assessment of timber structures (SHATIS ‘11), Lisbon, Portugal, June 16-17 2011
- Member staff, 16th Int Holzbau-Forum (IHF), Garmisch Partenkirchen, Germany, December 1-3 2010
- Member staff, 15th Int Holzbau-Forum (IHF), Garmisch Partenkirchen, Germany, December 2-4 2009
- Organizer, Int workshop “Assessment of structural timber“ Biel, Switzerland, June 27-28 2010

10. SERVICE TO THE UNIVERSITY

(a) Memberships on committees

- Member UBC pre-selection committee in the Faculty of Applied Science for the NSERC Research Tools and Instruments program, September 2015
- Member Civil Engineering enhanced teaching and learning committee, April 2015 – ongoing
- Member Civil Engineering CEAB sub-committee on program improvement, September 2014 – ongoing
- Member UBC Property Trust tall wood student residence design team selection committee, September – December 2014
- Member Faculty of Forestry new-building committee, January – December 2014
- Member Wood Science search committee for two instructor positions, January – December 2014
- Member Faculty of Forestry 3M thesis jury, February 27 2014
- Member UBC power over ethernet sensor network (PoE), May – December 2014
- Member Civil Engineering curriculum-redevelopment-committee (), October 2012 – December 2013
- Member Civil Engineering faculty salary review committee, April – June 2013

- Member Wood Science search committee for CRC position, August – December 2012
- Member Wood Science curriculum sub-committee “Integrated wood science second year course”, January – December 2012
- Representative of Faculty of Applied Science to Forestry Faculty Council, April 2011 – present
- Representative of Faculty of Forestry to Dept. of Civil Engineering, April 2011 – present
- Member Structures Group at Dept. of Civil Engineering, April 2011 – present
- Student representative at UBC Faculty of Graduate Studies Council 09/2006 – 03/2008
- Council member at UBC Graduate Student Society Council 01/2004 – 03/2008
- Graduate student representative at UBC TLEF Adjudication Committee 2007-2008

(b) Other service

- Faculty Advisor to UBC student chapter of the Canadian Society of Civil Engineers, January 2012 – present
- Host for Sabbatical stay of Prof. Paulina González, University of Santiago, Chile, July 2015 – June 2016
- Host for visiting researcher: Prof Michael Gershfeld, California State Polytechnic University, April 2016
- Co-host Technical Tour to Norway and Holzbau Nordic Conference Trondheim – September 2014
- Host of invited guest lecture by Bohumil Kasal (Director of WKI Fraunhofer Institute for Wood Research, Braunschweig) “Dynamic tests of frames with energy dissipation links” April 15 2013
- Host of invited guest lecture by Gerald Epp (Fast+Epp, Vancouver) “Free-Form Design and Integrated Prefabrication with Timber” January 11 2013
- Host of invited guest lecture by Andrew Harmsworth (GHL) “Fire Safety and Building Codes” Nov 24 2012
- Host of invited guest lecture by Prof. Richard Harris (University of Bath, UK) “Design of Timber Gridshells” March 12 2012
- Co-host of invited guest lecture by Prof. Julius Natterer “New trends in timber engineering” October 17 2011
- Member the Graduate Student Society executive 04/2004 – 03/2007
- Member Forestry Graduate Student Association executive 01/2004 – 12/2005

Chair of Examination Committees

M.Sc. Thesis Candidate Sheng Xie, April 13 2015

Ph.D. Comprehensive Exam Mina Shahbazi, November 05 2013

M.Sc. Thesis Candidate Shaghaygh Akhtari, November 20 2012

M.Sc. Thesis Candidate Diyan Xian, April 19 2012

M.Sc. Thesis Candidate Richard Hewitt, December 13 2011

M.Sc. Thesis Candidate Jonathan Haase, August 22 2011

M.ASc. Thesis Candidate Adam Robertson, July 29 2011

M.ASc. Thesis Candidate Maik Gehloff, July 15 2011

M.Sc. Thesis Candidate Chunling Liu, May 26 2011

11. SERVICE TO THE COMMUNITY

(a) Memberships in scholarly societies

- Wall Associate Membership, Peter Wall Institute of Advanced Studies, UBC, Vancouver, April 2013 - present
- International Network on Timber Engineering Research (INTER), January 2014 – present

- International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM), May 2008 – present
- International Union of Forest Research Organizations (IUFRO), April 2011 – present
- International Society for Structural Health Monitoring of Intelligent Infrastructure (ISHMII), May 2008 – present
- International Council for Research and Innovation in Building and Construction (CIB), Member working commission W18 Timber Structures, May 2008 – December 2013

(b) Memberships in other societies

- American Society of Civil Engineers (ASCE), January 2016 – present
- CIRS Researcher, affiliated with Centre for Interactive Research on Sustainability, August 2015 – present
- Structural Engineers Association of British Columbia (SEABC), January 2014 – present
- Canadian Society of Civil Engineers (CSCE), April 2011 – present
- Team-Based-Learning Collaborative, September 2011 – present
- Low Impact Materials and innovative Engineering Solutions Network (LimesNet), January – December 2012

(c) Memberships in scholarly committees

- Voting Member Technical Committees Canadian Standard Association; CSA-O86 "Engineering design in wood", January 2016 – present
- Member ASCE Structural Engineering Institute (SEI) Technical Activities Division "*Design of Wood Structures Committee"* of the Technical Administrative Committee on Wood, March 2016 – present
- Member ASCE Structural Engineering Institute (SEI) Technical Activities Division "*Wood Research Committee"* of the Technical Administrative Committee on Wood, March 2016 – present
- Member Sub-Committees "Fasteners" and "Design Principles" Canadian Standard Association; CSA-O86 "Engineering design in wood", December 2012 – present
- Member Canadian Advisory Committee to International Standards Organization (ISO) for TC 165, and WG 7 Connections/Assemblies, July 2015 – present
- Member Structural Engineering Institute (SEI) Technical Activities Division (TAD) *Design of Wood Structures Committee* of the Technical Administrative Committee (TAC) on Wood, March 2016 – present
- Chair RILEM Technical Committee 245-RTE "Reinforcement of Timber Elements in Existing Structures", October 2011 – October 2013, regular member since November 2013
- RILEM Technical Committee MMB "Methods of measuring moisture in building materials and structures", May 2012 – present
- Secretary RILEM Technical Committee 215-AST "In-situ Assessment of Structural Timber" June 2008 – December 2011
- Committee Swiss Timber Engineers (STE) Swiss Engineering Association, January 2009 – December 2010

(d) Memberships in other committees

- Member WoodWorksBC! "Wood Design Awards" jury, February 2015
- Member WoodWorksBC! "Wood Design Awards" jury, February 2013

(f) Reviewer (journals)

- 2016 Peer reviewed **28** research papers (5x Construction & Building Materials; 4x Maderas Ciencia y Tecnología; 3x Journal of Structural Engineering; 3x The Journal of Adhesion; 2x Wood Science and

Technology; 2x European Journal of Wood and Wood Products; 2x Canadian Journal of Civil Engineering; 1x Structural Engineering International; 1x International Wood Products Journal; 1x Journal of Materials in Civil Engineering; 1x Advances in Civil Engineering; 1x Acta Polytechnica; 1x International Journal of Heritage Architecture; 1x Wood and Fiber Science) (until September 15)

- 2015 Peer reviewed **29** research papers (5x Canadian Journal of Civil Engineering; 3x Journal of Adhesion; 3x Construction & Building Materials; 2x Journal of Structural Engineering; 2x Engineering Structures; 2x Journal of Materials in Civil Engineering; 2x Maderas Ciencia y Tecnología; 2 x Journal of Materials in Civil Engineering, 2x Materials and Structures; 1x Journal of Adhesion and Adhesives; 1x Wood Material Science and Engineering, 1x Materials and Design; 1x Mechanics of Materials, 1x Polymers, 1x Materials)
- 2014 Peer reviewed **25** research papers (4x Construction & Building Materials; 4x Journal of Structural Engineering, 2 x Journal of Earthquake Engineering, 2x Engineering Structures, 2x Maderas Ciencia y Tecnología; 2 x Journal of Civil Structural Health Monitoring, 1 x Wood Science and Technology, 1 x Wood and Fiber Science, 1 x Journal of Materials in Civil Engineering, 1x The Journal of Adhesion, 1x International Journal of Architectural Heritage, 1x Journal of Materials in Civil Engineering; 1x Canadian Journal of Civil Engineering, 1x Mechanics of Materials, 1x European Journal of Wood Products)
- 2013 Peer reviewed **21** research papers (6x Materials and Structures; 4x Advanced Materials Research; 3x Maderas Ciencia y Tecnología; 3x Journal of Materials in Civil Engineering; 2x Canadian Journal of Civil Engineering; 1x International Journal of Architectural Heritage; 1x Construction & Building Materials; 1x Journal of Performance of Constructed Facilities, 1 x Journal of Earthquake Engineering)
- 2012 Peer reviewed **15** research papers (3x Materials and Structures; 2x Maderas Ciencia y Tecnología; 2x Journal of Materials in Civil Engineering; 2x Engineering Structures; 2x European Journal of Environmental and Civil Engineering; 1x International Journal of Architectural Heritage; 1x International Wood Products Journal; 1x Construction & Building Materials; 1x Buildings)
- 2011 Peer reviewed **16** research papers (2x Journal of Civil Structural Health Monitoring; 2x Canadian Journal of Civil Engineering; 2x Journal of Structural Engineering; 2x International Journal of Architectural Heritage; 2x Construction and Building Materials; 1x Maderas Ciencia y Tecnología; 1x Materials and Structures; 1x Journal of Materials in Civil Engineering; 1x Journal of Adhesion Science and Technology; 1x European Journal of Environmental and Civil Engineering; 1x Structural Engineering International)
- 2010 Peer reviewed **4** research papers (1x Journal of Civil Structural Health Monitoring; 1x Materials and Structures; 1x Maderas Ciencia y Tecnología; 1x Experimental Techniques)

Other review activities

- MITCAS Elevate proposal, 2017
- Elsevier book proposal, 2017
- Swiss National Science Foundation grant, 2016
- Austrian National Science Foundation grant, 2016
- NSERC Discovery grant, 2015
- Chilean National Science Foundation (Conycit) grant, 2015
- Swiss National Science Foundation grant, 2015
- Czech National Science Foundation grant, 2015
- Austrian National Science Foundation grant, 2015
- Springer book proposal, 2014
- Wiley book proposal, 2014
- Section 4, Technical guide for the design and construction of tall wood buildings in Canada, 2013
- NSERC Discovery grant, 2013
- Two MITCAS Accelerate proposals, 2013

12. AWARDS AND DISTINCTIONS

(a) Awards for Teaching

- Top Teacher Award in Department of Wood Science, 2015, UBC, Vancouver
- Teaching Development Scholarship, 2013, UBC, Vancouver
- Recognition in Interdisciplinary Activities, 2009, Bern University of Applied Sciences

(b) Awards for Scholarship

- Best paper award Modular and Offsite Construction (MOC) Summit, September 2016, Edmonton, Canada
- Early Career Start-Up Research Award, Peter Wall Institute of Advanced Studies, 2013, UBC, Vancouver
- Martha Piper Research Award, 2012, UBC, Vancouver
- Donald S. McPhee Fellowship, 2007, UBC, Vancouver
- Lumber Inspectors' Benevolent Society Scholarship, 2006, UBC, Vancouver
- Weldwood of Canada Limited H Richard Whittall Scholarship, 2005, UBC, Vancouver
- University Graduate Fellowship, 2004, UBC, Vancouver
- Weldwood of Canada Limited Scholarship in Forestry, 2004, UBC, Vancouver
- University Graduate Entrance Scholarship, 2004, UBC, Vancouver
- University Graduate Fellowship, 2002, UBB, Concepción
- German Academic Exchange Service (DAAD), 2001 – 2003, Bonn, Germany

(c) Awards for Service

- Outstanding Reviewer of Canadian Journal of Civil Engineering, 2015
- Just Desserts Award, 2007, Alma Mater Society, UBC, Vancouver

13. OTHER RELEVANT INFORMATION

The mandates of my Chair are to develop world class research and teaching programs - I have embraced these mandates with great enthusiasm and great success. With the suite of timber design courses I was teaching, which is amongst the most comprehensive offerings in this field in North America, I have contributed to bring UBC into a position to meet the demand for structural engineers with knowledge about timber. Apart from my formal teaching assignments, I see the supervision of graduate students as my most important professional task. I have taken on the role of primary supervisor for five PhD and 15 MASc students and have dedicated a large proportion of my time towards supporting them. This dedication has been recognized through two nominations for the Mitacs Award for Exceptional Leadership in 2014 and 2016.

While Canada has long been a leader in building with timber, most of the innovations in timber design over the past few decades have occurred elsewhere in the world, and the structural use of timber in North America has been largely limited to low-value commodity products used in residential light-frame construction. To allow timber, and its wood products derivatives, to fulfill its much greater potential, there is an acute need for research to develop more value-added structural applications. My research addresses this need at three different levels: i) timber as material, ii) structural assessment of timber, and iii) timber in building design.

The core functions of a faculty member are teaching, research and service. Since 2011, I have significantly contributed in each area as demonstrated by this curriculum vitae. The main impacts of my work are: i) helping undergraduate students to achieve skills to either enter the industry or to join graduate programs, ii) training graduate students to become researchers, academics or industry specialists in the area of timber engineering; and iii) creating and disseminating knowledge for increased understanding of the renewable resource timber in structural applications.

THE UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Publications Record

Note: Initially, my policy was placing the person who did the majority of the work first in the author list with the positions of subsequent authors reflecting their degree of involvement. In 2014, I changed this policy to placing my students first in the author list. Students that I have (co)supervised are marked in bold. Given my interdisciplinary and international collaborations, my publications often have multiple authors.

1. REFEREED PUBLICATIONS

(a) Journals

46. **Zhang X**, **Riasat A**, **Bhat P**, Popovski M, Tannert T, (2017) Seismic performance of embedded steel beam connection in cross-laminated timber panels for tall-wood hybrid system, Can. J. Civ. Eng. 44: 611–618 dx.doi.org/10.1139/cjce-2016-0386.

45. **Shahnewaz Md**, Tannert T, Popovski M, Alam MS (2017) In-Plane Stiffness of Cross Laminated Timber Panels with Openings. Structural Engineering International DOI: 10.2749/101686617X14881932436131.

44. **Shahnewaz Md**, Islam MS, Ahmadipour M, Tannert T, Alam MS (2017) Reinforced wood I-joists with web openings. ASCE Journal of Structural Engineering 143(6) 04017022-1.

43. **Zhu H**, **Faghani P**, Tannert T (2017) Experimental investigations on timber joints with single glued-in FRP rods, Construction and Building Materials Volume 140(1): 167–172.

42. Tannert T, **Endacott B**, Brunner M, Vallée T (2017) Long-term performance of adhesively bonded timber-concrete-composites. Int Journal of Adhesion and Adhesives. 72: 51-61

41. Tannert T, **Zhu H**, Myslicki S Walther H, Vallée T (2016) Tensile and fatigue investigations of timber joints with glued-in FRP rods. The Journal of Adhesion DOI:10.1080/00218464.2016.1190653

40. **Hossain A**, **Danzig I,** Tannert T (2016) Cross-Laminated Timber Shear Connection with Innovative Self-Tapping Screw Assemblies. ASCE Journal of Structural Engineering 142(11) 04016099-1.

39. Vallée T, Tannert T, Fecht S (2016) Adhesively bonded connections in the context of timber engineering. Journal of Adhesion. DOI: 10.1080/00218464.2015.1071255.

38. Tannert T (2016) Improved performance of reinforced Rounded Dovetail Joints. Construction and Building Materials 118: 262–267.

37. **Gonzales E, Avez C**, Tannert T (2016) Timber joints with multiple glued-in steel rods. The Journal of Adhesion. 92(7-9): 635-651. DOI: 10.1080/00218464.2015.1099098

36. Schober KU, Tannert T (2016) Hybrid connections for timber structures, European Journal of Wood and Wood Products. 74(3): 369-377

35. Dias A, Skinner J, Crews K, Tannert T (2016) Timber-concrete-composites increasing the use of timber in construction, European Journal of Wood and Wood Products. 74(3): 443-451 DOI 10.1007/s00107-015-0975-0.

34. Weckendorf J, Toratti T, Smith I, Tannert T (2015) Vibration serviceability performance of timber floors, European Journal of Wood and Wood Products. 74(3): 353-367 DOI: 10.1007/s00107-015-0976-z.

33. **Gonzales E**, Tannert T, Vallée T (2016) The impact of defects on the capacity of timber joints with glued-in rods. Int Journal of Adhesion and Adhesives. 65: 33–40 10.1016/j.ijadhadh.2015.11.002

32. **Zhang X**, **Fairhurst M,** Tannert T (2015) Ductility estimation for a novel timber-steel-hybrid system. Journal of Structural Engineering. 142(4): E4015001, DOI: 10.1061/(ASCE)ST.1943-541X.0001296.

31. Dietsch P, Tannert T (2015) Assessing the integrity of glued-laminated timber elements. Construction & Building Materials, 101(2): 1259–1270 DOI: http://dx.doi.org/10.1016/j.conbuildmat.2015.06.064.

30. **Haghdan S**, Tannert T, Smith G (2015) Effects of species anatomy and lay-up configurations on wettability and impact performance of wood veneer/polyester composites. BioResources 10(3): 5633-5654.

29. **Haghdan S**, Tannert T, Smith G. (2015) Effects of reinforcement configuration and densification on impact strength of wood veneer/polyester composites. Journal of Composite Materials. 49 (10): 1161–1170. DOI: 10.1177/0021998314531308.

28. Grunwald C, Fecht S, Vallée T, Tannert T. (2014) Adhesively bonded timber joints – Do defects matter? Int. Journal of Adhesion & Adhesives. 55: 12–17, DOI: http://dx.doi.org/10.1016/j.ijadhadh.2014.07.003.

27. **Meena R**, Schollmayer M, Tannert T (2014) Experimental and numerical investigations on the fire-resistance of a novel timber-concrete-composite deck. Journal of Performance of Constructed Facilities, 28:A4014009; DOI: 10.1061/(ASCE)CF.1943-5509.0000539.

26. **Hehl S,** Tannert T, **Meena R**, Vallee T (2014) Experimental and numerical investigations on groove connections for novel timber-concrete-composite system. Journal of Performance of Constructed Facilities, 28:A4014010; DOI: 10.1061/(ASCE)CF.1943-5509.0000549.

25. Fecht S, Vallée T, Tannert T, Fricke H (2014) Adhesively bonded hardwood joints under room and elevated temperatures. The Journal of Adhesion, 90: 401-419. DOI: 10.1080/00218464.2013.836968S.

24. Riggio M, Anthony R, Augelli F, Kasal B, Lechner T, Muller W, Tannert T (2014) In situ assessment of structural timber using non-destructive techniques. Materials and Structures. 47: 749-766. DOI: 10.1617/s11527-013-0093-6.

23. Tannert T, Anthony R, Kasal B, Kloiber M, Piazza M, Riggio M, Rinn F, Widmann R, Yamaguchi N (2014) In situ assessment of structural timber using semi-destructive techniques. Materials and Structures. 47: 767-785. DOI: 10.1617/s11527-013-0094-5.

22. Dackermann U, Crews K, Kasal B, Li J, Riggio M, Rinn F, Tannert T (2014) In situ assessment of structural timber using stress-wave measurements. Materials and Structures. 47:787-803. DOI: 10.1617/s11527-013-0095-4.

21. Tannert T, Branco J, Riggio M (2013) RILEM TC reinforcement of timber elements in existing structures. Advanced Materials Research 778:1041-1048. DOI: 10.4028/www.scientific.net/AMR.778.1041.

20. Franke B, Franke S, Müller A, Vogel M, Scharmacher F, Tannert T (2013) Long term monitoring of timber bridges. Advanced Materials Research 778:749-756. DOI: 10.4028/www.scientific.net/AMR.778.749.

19. Tannert T, Haukaas T (2013) Probabilistic models for structural performance of rounded dovetail joints. ASCE Journal of Structural Engineering, 139: 1478–1488. DOI: 1061/(ASCE)ST.1943-541X.0000744.

18. Vallée T, Tannert T, **Meena R**, **Hehl S** (2013) Dimensioning method for bolted, adhesively bonded, and hybrid joints. Composites Part B, 46:179–187. DOI: http://dx.doi.org/10.1016/j.compositesb.2012.09.074.

17. Tannert T, Vallée T, Müller A (2012) Critical review on the assessment of glulam structures using shear core samples. Journal of Civil Structural Health Monitoring. 2:65-72. DOI: 10.1007/s13349-012-0016-1.

16. Tannert T, Vallée T, **Hehl S** (2012) Experimental and numerical investigations on adhesively bonded hardwood joints. Int Journal of Adhesion and Adhesives. 37:65–69. DOI: 10.1016/j.ijadhadh.2012.01.014.

15. Tannert T, Vallée T, **Hehl S** (2012) Probabilistic strength prediction of adhesively bonded timber joints, Wood Science and Technology. 46:503–513. DOI: 10.1007/s00226-011-0424-0.

14. Tannert T, Vallée T, **Hehl S** (2012) Experimental and numerical investigations on adhesively bonded timber joints, Wood Science and Technology. 46:579–590. DOI: 10.1007/s00226-011-0423-1.

13. Vallée T, Tannert T, Ganne-Chedville C (2012) Capacity prediction of welded timber joints. Wood Science and Technology. 46:333–347. DOI: 10.1007/s00226-011-0404-4.

12. Tannert T, Lam F, Vallée T (2011) Structural performance of rounded dovetail connections: experimental and numerical investigations. European Journal of Wood and Wood Products, 69:471–482. DOI: 10.1007/s00107-010-0459-1.
11. Vallée T, Tannert T, **Hehl S** (2011) Experimental and Numerical investigations on full-scale adhesively bonded timber trusses. Materials and Structures. 44:1745-1758. DOI: 10.1617/s11527-011-9735-8.
10. Brunner AJ, Tannert T, Vallée T (2011) Waveform analysis of acoustic emission monitoring of tensile tests on welded wood-joints. Journal of Acoustic Emission, 28:59-67.
9. Kasal B, Tannert T (2010) RILEM committee on in-situ assessment of structural timber. Advanced Materials Research, 133-134: 271-274.
8. Tannert T, **Hehl S,** Vallée T (2010) Bemessung von geklebten Anschlüssen im Holzbau. Bautechnik, 87:623-629.
7. Vallée T, Tannert T, Murcia J, Quinn D (2010) Influence of stress reduction methods on the strength of adhesively bonded joints composed of brittle adherends. Int Journal of Adhesion & Adhesives. 30:583-594.
6. **Hehl S,** Vallée T, Tannert T, Bai Y (2010) A probabilistic strength prediction method for adhesively bonded joints composed of wooden adherends. Key Engineering Materials, 417-418:533-536.
5. Tannert T, Lam F, Vallée T (2010) Strength prediction for rounded dovetail connections considering size effects, ASCE Journal of Engineering Mechanics, 136:358-366.
4. Tannert T, Lam F (2009) Self-tapping screws as reinforcement for rounded dovetail connections. Progress in Structural Engineering and Materials, Structural Control and Health Monitoring, 16(3):374-384.
3. Tannert T, Prion H, Lam F (2007) Structural performance of rounded dovetail connections under different loading conditions. Canadian Journal of Civil Engineering. 34:1600-1605.
2. Tannert T, Lam F (2007) Performance of laminated strand lumber for rounded dovetail connections. Forest Products Journal. 57:63-67.
1. Tannert T, Poblete C, Gotelli G (2003) Mechanic properties of nail laminated timber elements. Maderas: Ciencia y Tecnología, 5:51-67.

2. NON-REFEREED PUBLICATIONS

(a) Journals

11. **Shahnewaz Md**, Alam MS, Tannert T (2016) Cross-laminated timber: a high performance sustainable building material. Canadian Civil Engineer Fall edition 2016
10. **Schmitt C**, Neumann O, Tannert T (2016) Review of heritage housing reconstruction after the February 2010 earthquake in Chile Arquitectura y Cultura 7:90-105 ISSN: 0719 – 4374
9. **Cheng A,** MacDonald I, Tannert T (2016) Parametric design of timber shell structures. Branchlines, 27(1):9.
8. Tannert T (2016) Design of Rounded Dovetail Joints, Timber Frame Engineering Council Tech Bulletin No. 2016-5.
7. **Gonzales E,** MacDonald I, Tannert T (2014) Exploring our campus: A showcase of innovative timber construction. Branchlines, 25(4):10-11.
6. Tannert T, Evans P (2013) New equipment advances wood processing. Branchlines, 24(4):18-19.
5. Tannert T (2012) Innovations in timber design. Branchlines, 23(4):18-19.
4. Tannert T, Müller A, Vogel M (2010) Stopping the rot. Bridge Engineering. 60:72-73.

3. Vallée T, Tannert T (2009) Bemessung geklebter Anschlüsse. Holzforschung Schweiz, Bulletin Schweizerische Arbeitsgemeinschaft für Holzforschung SAH, 17:1-3.
2. Tannert T, Rosales V (2003) Stress laminated timber decks. Revista Tecnología y Construcción con Madera, 5:4-16.
1. Tannert T (2002) Estudio de elementos laminados clavados para la construcción de viviendas de madera en Chile. Maderas: Ciencia y Tecnología, 4:202-203.

(b) Conference Proceedings

86. Tannert T, Moudgil M (2017) Structural design, approval and monitoring of UBC Tall Wood Building. ASCE Structures Congress, April 6-9, Denver USA
85. **Shahnewaz Md**, Tannert T MS Alam, M Popovski (2017) Capacity-based design for platform-framed cross-laminated timber buildings. ASCE Structures Congress, April 6-9, Denver USA
84. **Kaushik K, Tannert T.** (2017) Innovative concrete-wood hybrid system for tall structures. ASCE Structures Congress, April 6-9, Denver USA
83. **Shahnewaz Md**, Tannert T (2017) In-Plane Stiffness of CLT Walls by Finite Element Analysis. World Conference on Earthquake Engineering (WCTE 2017), January 9-13, Santiago, Chile
82. **Mpidi H**, Tannert T (2017). Disproportionate collapse assessment. World Conference on Earthquake Engineering (WCEE 2017), January 9-13, Santiago, Chile
81. **Hossain A**, Tannert T (2017). Static and Cyclic Performance of Shear Connections. World Conference on Earthquake Engineering (WCEE 2017), January 9-13, Santiago, Chile
80. **Zhang X**, Popovski M, Tannert T (2017). Experimental Test on Novel Seismic Hold-Downs for Timber Structures. World Conference on Earthquake Engineering (WCEE 2017), January 9-13, Santiago, Chile
79. Tannert T (2016) Prefabricated Timber Concrete Composite Floors. Modular and Offsite Construction (MOC) Summit, September 29-30, Edmonton, Canada
78. **Shahnewaz Md**, Alam MS, Tannert T (2016) Shear strength prediction of steel fiber reinforced concrete beams from genetic programming and its sensitivity analysis. 9th RILEM International Symposia on Fiber Reinforced Concrete (BEFIB), September 19-21, Vancouver, Canada
77. **Gerber G**, Popovski M, Tannert T (2016) Performance of Timber-Concrete Composite Floors Using Flat-Plate Engineered Wood Products. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
76. **Hossain A**, Popovski M, Tannert T (2016) Shear Connections with Self-Tapping-Screws for Cross-Laminated-Timber Panels. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
75. **Cheng A**, **Schneider J**, Tannert T (2016) Effective Out-of-plane Stiffness and Strength of Rotated Cross Laminated Timber Panels. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
74. **Gonzalez E**, **Avez C**, Vallée T, Tannert T (2016) Timber Joints with Multiple Glued-in Steel Rods and the Impact of Defects. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
73. **Mpidi Bita H**, Currie N, Tannert T (2016) Assessment of Disproportionate Collapse for Multi-Storey Cross-Laminated Timber Buildings. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
72. Poirier E, **Moudgil M**, Fallahi A, Staub-French S, Tannert T (2016) Design and Construction of a 53 Meter Tall Timber Building at the University Of British Columbia. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria

71. Riggio M, Tannert T (2016) Structural assessment: diagnosis, before intervention! World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
70. **Shahnewaz Md**, Tannert T, Alam MS, Popovski M (2016) In-plane stiffness of CLT panels with and without openings. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
69. **Shahnewaz Md**, Islam MS, Tannert T, Alam MS (2016) Reinforced Wood I-Joists with Web Openings: Experimental and Analytical Investigations. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
68. Tannert T, **Gerber A** (2016) Teaching Timber Design in Team-Based-Learning Format and in Interdisciplinary Settings. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
67. **Zhang X**, Popovski M, Tannert T (2016) High-Capacity Hold-Down for Tall Timber Buildings. World Conference on Timber Engineering (WCTE 2016), August 22-25, Vienna, Austria
66. **Shahnewaz Md**, Islam S, Alam S, Tannert T (2016) Timber I-Joists with Web Openings: Reinforcement, Capacity Prediction and Sensitivity Analysis. 5th International Structural Specialty Conference, CSCE 2016, June 1- 4 2016, London, Ontario,
65. **Shahnewaz Md**, Islam S, Tannert T, Popovski M (2016) Cross Laminated Timber Walls with Openings: In-plane Stiffness Prediction and Sensitivity Analysis. 5th International Structural Specialty Conference, CSCE 2016, London, Ontario, June 1- 4 2016
64. **Hossain A**, Tannert T (2015) Shear Connections with Self-Tapping-Screws for Cross-Laminated-Timber Panels. First International Conference on Advances in Civil Infrastructure and Construction Materials (CICM), Dhaka, Bangladesh
63. **Shahnewaz Md**, Tannert T, Alam MS, Popovski M (2015) Experimental and Finite Element Analysis of Cross Laminated Timber (CLT) Panels. First International Conference on Advances in Civil Infrastructure and Construction Materials (CICM), Dhaka, Bangladesh
62. **Hunter J**, **Cheng A**, Tannert T, Neumann O, Meyboom AL (2015) Extending the perception of wood: research in large scale surface structures in wood. Association for education and research in computer aided architectural design in Europe (eCAADe) 33rd Annual Conference, September 16-18, Vienna, Austria.
61. **Zhang X**, **Fairhurst M**, Tannert T (2015) Seismic reliability analyses of timber-steel-hybrid system. 12th Int Conference on Applications of Statistics and Probability in Civil Engineering (ICASP12), July 12-15 2015, Vancouver, Canada.
60. **Zhang X**, **Fairhurst M**, **Kaushik K**, Tannert T (2015) Ductility estimation for a novel timber-steel-hybrid system with consideration of uncertainty. ASCE Structures Congress, April 23-25, Portland, USA.
59. **Hossain A, Lakshman R**, Tannert T (2015) Shear connections with self-tapping screws for cross-laminated-timber panels. ASCE Structures Congress, April 23-25, Portland, USA.
58. **Gerber A**, Tannert T (2015) Timber-concrete composites using flat-plate engineered wood products. ASCE Structures Congress, April 23-25, Portland, USA.
57. **Cheng A**, Tannert T (2015) Comparative study on timber-based hybrid systems for high-rise construction. ASCE Structures Congress, April 23-25, Portland, USA.
56. **Cheng A**, Meyboom AL, Gaudin T, Neumann O, Tannert T (2015) Large scale wood surface structures. Int Conference on Architecture and Civil Engineering (ACE 2015), April 13-14, Singapore, Singapore.
55. Widmann R, Tannert T, **Frei R** (2014) Comparison of different techniques for the shear strengthening of glulam members. 7th Int Conference on FRP Composites in Civil Engineering (CICE 2014), August 20-22, Vancouver, Canada.

54. Vallée T, Tannert T, **Meena R** (2014) Dimensioning method for bolted, adhesively bonded, and hybrid joints involving fibre-reinforced-polymers. 7th Int Conference on FRP Composites in Civil Engineering (CICE 2014), August 20-22, Vancouver, Canada

53 **Schneider J, Zhang X**, Tannert T, Popovski M, Karacabeyli E, Stiemer S, Tesfamariam S (2014) Novel Steel Tube Connection For Hybrid Systems. World Conference on Timber Engineering (WCTE 2014), August 10-14, Quebec City, Canada

52 Tannert T, **Faghani P**, **Zhu H**, **Garekani A**, Vallee T (2014) Timber joints with glued-in FRP rods. World Conference on Timber Engineering (WCTE 2014), August 10-14, Quebec City, Canada

51. **Fairhurst M**, **Zhang X**, Tannert T (2014) Nonlinear dynamic analyses of novel timber-steel-hybrid system. World Conference on Timber Engineering (WCTE 2014), August 10-14, Quebec City, Canada

50. Fecht S, Vallée T, Grunwald C, Tannert T (2014) Capacity prediction of bonded beech joints under normal and elevated temperatures. World Conference on Timber Engineering (WCTE 2014), August 10-14, Quebec City, Canada

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48. **Bhat P**, **Azim R**, Popovski P, Tannert T (2014) Experimental and numerical investigation of novel steel-timber-hybrid system. World Conference on Timber Engineering (WCTE 2014), August 10-14, Quebec City, Canada

47. **Danzig I**, **Closen M**, Tannert T (2014) High performance cross-laminated-timber shear connection with self-tapping screw assemblies. World Conference on Timber Engineering (WCTE 2014), August 10-14, Quebec City, Canada

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45. Franke B, Widmann, R, Müller, A, Tannert T (2013) Assessment and monitoring of the moisture content of timber bridges, 2nd Int Conference on Timber Bridges, October 1-3, Las Vegas, USA

44. Widmann R, Tannert T, **Frei R** (2013) Comparison of different techniques for the shear strengthening of glulam members, 2nd Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, September 9-11, Istanbul, Turkey

43. Brunner A, Tannert T (2013) Schallemissionsanalyse ausgewählter Zugversuche an unterschiedlichen Klebeverbindungen für Holz, Jahrestagung der DGZfP, May 6-8, Dresden, Germany

42. Vallée T, Tannert T, **Grunwald G** (2012) Seemingly contradictory: influence of stress-reduction-methods on the strength of bonded joints composed of brittle adherends. 10th Int Probabilistic Workshop, November 15-16, Stuttgart, Germany

41. **Meena R**, Schollmayer M, **Hehl S**, Tannert T (2012) Experimental and numerical investigations on fire-resistance of a wood-concrete composite deck. 6th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2012) September 10-14, Vienna, Austria.

40. Tannert T, Vallée T, Franke S, Quenneville P (2012) Comparison of test methods to determine Weibull parameters for wood. World Conference on Timber Engineering, July 16-19, Auckland, New Zealand.

39. Tannert T, **Keller N**, **Frei R**, Vallée T (2012) Improved Performance of Rounded Dovetail Joints. World Conference on Timber Engineering, July 16-19, Auckland, New Zealand.

38. Tannert T, Dietsch P, Bertolini C, Kasal B (2012) Cost Action “Assessment, reinforcement and monitoring of timber structures”. World Conference on Timber Engineering, July 16-19, Auckland, New Zealand.

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36. Tannert T, Berger R, Vogel M, **Liebhold P** (2011) Remote moisture monitoring of timber bridges. 5th Int Conference on Structural Health Monitoring of Intelligent Infrastructure, December 11-15, Cancún, Mexico.
35. Tannert T, Vogel, Widmann R (2011) Long-term moisture content and deformation measurement of block laminated timber. 17th Int Nondestructive Testing and Evaluation of Wood Symposium, September 14-16, Sopron, Hungary.
34. Tannert T, **Hehl S**, Vallée T (2011) Experimental and numerical investigations on adhesively bonded hardwood joints. Int conference on adhesive bonding, July 7-8, Porto, Portugal.
33. Tannert T, Müller A, Vallée T (2011) Assessment of glulam structures using shear core samples. Int conference on structural health assessment of timber structures, June 16-17, Lisbon, Portugal.
32. **Hehl S**, Tannert T, Vallée T (2011) Celosia pegada: ensayos y modelo numerico. Congresso Ibero-Latino Americano da Madeira na Construção, June 7-8, Coimbra, Portugal.
31. Tannert T, Vallée T, **Hehl S** (2010) Probabilistic capacity prediction of adhesively bonded FRP and timber joints. Ansys users meeting, November 3-5, Aachen, Germany.
30. Tannert T, Müller A, Vogel M (2010) Structural health monitoring of timber bridges. Int Conference on Timber Bridges, September 12-15, Lillehammer, Norway.
29. Brunner AJ, Tannert T, Vallée T (2010) Acoustic Emission Monitoring of Tensile Tests on Welded Wood-Joints. EWGAE 2010, September 8-10, Vienna, Austria.
28. Tannert T, Vallée T, **Hehl S** (2010) Probabilistic strength prediction of adhesively bonded joints composed of heterogeneous materials. Int Conference on Material Science and 64th RILEM Annual Week in Aachen - MATSCI, September 6-9, Aachen, Germany.
27. Vallée T, **Oppel M,** Tannert T (2010) Meso-mechanical modeling of ultra-lightweight concretes – numerical work and experimental verification. Int Conference on Material Science and 64th RILEM Annual Week in Aachen - MATSCI, September 6-9, Aachen, Germany.
26. Tannert T, Vallée T, Lam F (2010) Probabilistic capacity prediction of timber joints under brittle failure modes, CIB W18, August 28-30, Canterbury, New Zealand.
25. Tannert T, Kasal B, Anthony R (2010) RILEM TC 215 In-situ assessment of structural timber: report on activities and application of assessment methods. World Conference on Timber Engineering, June 20-24, Riva del Garda, Italy.
24. Tannert T, Vallée T (2010) Contact joints: experimental and numerical investigations. World Conference on Timber Engineering, June 20-24, Riva del Garda, Italy.
23. Vallée T, Guzman D, **Hehl S,** Tannert T (2010) Experimental and Numerical investigations on bamboo-concrete composite beams. World Conference on Timber Engineering, June 20-24, Riva del Garda, Italy.
22. Vallée T, Tannert T, Lam F (2010) Probabilistic design method for timber joints. World Conference on Timber Engineering, June 20-24, Riva del Garda, Italy.
21. Vallée T, Tannert T, **Schwendimann M** (2010) Adhesively bonded trusses: experimental and numerical investigation. World Conference on Timber Engineering, June 20-24, Riva del Garda, Italy.
20. Tannert T, Müller A, Vogel M (2010) Structural health monitoring of timber bridges, Structural Faults & Repair. June 15-17, Edinburgh, Scotland.
19. Tannert T, Kasal B, Anthony R (2010) In-situ assessment of structural timber, Structural Faults & Repair. June 15-17, Edinburgh, Scotland.

18. Vallée T, **Meena R**, Tannert T, **Hehl S** (2010) Experimental investigation on adhesively bonded and bolted FRP joints, 14th European Conference on composite materials, June 7-10, Budapest, Hungary.
17. Osterloh K, et al. incl. Tannert T (2010) Radiological examination of wood with neutrons - different perspectives. 10th European conference on NDT, June 6-10, Moscow, Russia.
16. Tannert T, Müller A, Vallée T (2010) Assessment of the shear strength of glued-laminated timber in existing structures: The future of quality control for wood & wood products. May 4-7, Edinburgh, Scotland.
15. Vallée T, Tannert T, **Hehl S** (2010) Implementation of probabilistic dimensioning methods for adhesively bonded joints in codes and standards. Codes in Structural Engineering Developments and Needs for International Practice. Joint IABSE-fib Conference, May 3-5, Cavtat, Croatia.
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