



HALLIWELL

DR DANIEL BRANDON, Ph.D. MSc

SENIOR RESEARCHER,

FIRE RESEARCH SERVICES

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BIOGRAPHY

Dr Daniel Brandon is leading international research of the fire performance of buildings, mainly those comprising a timber structure. He has received several awards from organizations active in different fields. He is playing a leading role in several networks that strive for collaboration, inclusiveness and dissemination. Daniel also acts as expert third-party reviewer for the fire safety design of tall and complex timber buildings.

QUALIFICATIONS

PhD degree in Civil Engineering, University of Bath, June 2015. (PhD Scholarship from the BRE TRUST) Thesis: Fire and Structural Performance of Non-Metallic Timber Connections.

MSc. degree in Structural Design, Eindhoven University of Technology (Netherlands), 2011.

Thesis: Moment Transmitting Timber Connection with Flitch Plate and Expanded Tube Fasteners

PROFESSIONAL AWARDS

- FIRE PROTECTION RESEARCH FOUNDATION MEDAL 2019 - by: National Fire Protection Association (USA) One of 13 NFPA award recipients to recognize "Outstanding Achievements in fire and Life Safety"
- L.J. MARKWARDT AWARD 2019 - Awarded by: Forest Products Society (USA) For: "The paper published in the last two years with the most outstanding merit in the field of wood as an engineering material"
- HOWARD MEDAL 2016 - Awarded by: Institution of Civil Engineers (UK) For: The best journal paper in Construction Materials for "exceptional quality and benefit to the civil engineering and science community"
- WOOD INNOVATIONS SUCCESS STORY 2022 - Named by: US Dept. of Agriculture – Forest Service (USA) For: Fire tests leading to US building code changes

PUBLICATIONS (71 IN TOTAL)

- International Handbook of Structural Fire Engineering SFPE (2021) First author of *Timber Structures*.
- First author of 4 out of 5 NFPA (National Fire Protection Association, USA) reports that have been published on Mass Timber buildings since 2016.
- At least 12 publications with a demonstrable impact on regulations, standards and/or general practice.
- 34 Scientific papers, 20 published reports by the Research Institutes of Sweden
- Nine articles in engineering magazines on the design of timber structures.

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MEDIA AND NETWORKS

- Fire Science Show podcast guest in episode 38 (2022): Fire resistance is not always enough for timber. Note: the most listened Fire Science Show episode of 2022.
- Woodsolutions Timber Talks Podcast guest (New Research into Fire Dynamics of Wooden Buildings).
- Moderator of Fire performance group of online platform: Build-in-Wood Community
- COST Action CA20139 on Holistic design of taller timber buildings: Vice-chair of the Accidental Load Cases Work group and Leader of the Fire group.
- Member of the European Task Force Fire group by Cei Bois for the fire safety of timber buildings.
- COST Action FP1404 leader of tasks on fire dynamics and regulations for timber buildings.

PROFESSIONAL EXPERIENCE

- Senior Researcher (From August 2024) at Halliwell Fire Research. Main responsibilities: Managing and performing research of the fire performance of timber buildings, consulting different industries, and being involved in international standardization for fire safety of timber buildings.
- Senior Research Scientist (April 2015 – July 2024) at Research Institutes of Sweden (RISE). Main responsibilities: Managing and performing research of the fire performance of timber buildings and being involved in international standardization for fire safety of timber buildings

STANDARDISATION COMMITTEES / INVOLVEMENT IN BUILDING REGULATIONS/ OTHER MERITS

- Expert member in Dutch Standardisation Institute (NEN) workgroup “fire safety and constructing with timber”, aiming to adjust the Dutch building code. Assignment 1 leader on regulatory gaps.
- Advisor for updates of the Swedish building regulations by the Swedish Building authority.
- Expert third-party-reviewer for Building Control for the fire safety design of complex timber buildings.
- Eurocode helpdesk expert appointed by the Swedish Standardisation Institute (SIS) 2019, 2020, 2021.
- Scientific committee member of iFireSS 2023, Wood& FireSafety 2020,2024, SiF 2018, 2020, 2022
- Delegate, nominated by the Swedish Standardisation Institute, in the Eurocode 5 committee (CEN/TC250/SC5) for the development of the European design standard for timber structures.

NOTABLE KEYNOTE SPEECHES AND INVITED PRESENTATIONS

- NFPA Webinar, Fire Safety Challenges of Tall wood Buildings Webinar with over 1000 subscribers, National Fire Prot. Association (USA)
- CLT Expert meeting – Vienna, Review of fire research of CLT Presenting the State-of-the-art of CLT in fire, ETH Zurich and COST Action FP1404

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- Wood RISE Webinar, Fire performance of taller timber buildings Webinar with 180 participants, WoodRISE Alliance
- NFPA workshop on tall timber buildings – Portland, Three invited presentations of (1) Previous research (2) Ongoing research and (3) European regulations, National Fire Prot. Association (USA)
- Thermal exposure – Belfast, Thermal exposure in fire Provide response to 4 highly debated topics, ETH Zurich and COST Action FP1404
- Brandskydd 2017 & 2021 Stockholm, Mass timber structures in fire & robustness presentation at Sweden's largest fire safety conference, Fire Consultant Association of Sweden
- Other: American Wood Council Education Program (2021); Fire Research Days Finland – Keynote (2017); [Brandforsk façade exposure](#) (2021); NFPA Conference – Las Vegas (2018), WoodRISE conf. 2h Workshop (2022).

NOTABLE RESEARCH PROJECTS

- 2021 Fire Safe implem. of mass timber in tall buildings (U.S. dept of Agricult), Justify safe limits of visible mass timber in tall buildings, Principal investigator, International Building Code (IBC 2024) change formulated and approved based on findings
- 2021 Glue Line Integrity in Fire (14 firms, EU), Test development for mass timber, Project leader, Inclusion of the test in the final draft of EU standard Eurocode 5 (for publ. 2025)
- 2018 Fire Safety Challenges of Tall Wood Buildings (NFPA, USA), Quantify mass timber's impact in compartment fires, Principal investigator of 3 tasks, Adjustment of requirements in N.American CLT product standard