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Steven T. Craft, PhD, PEng

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CURRICULUM VITAE

Steven Craft has conducted research related to wood structures and fire for the last 10 years while working with Carleton University and FPInnovations. In the last 5 years, Dr. Craft has worked with the wood industry on critical issues including adhesive performance when exposed to fire, the introduction of fire resistance into the Canadian Wood Design Standard and the determination of the fire performance of Cross-laminated Timber.

Dr. Craft has a unique background having completed his PhD in Fire Safety Engineering at Carleton University after studying structural design and wood science as part of the Forest Engineering program at the University of New Brunswick.

Dr. Craft is an expert in the area of wood structures and fire and is an Adjunct Professor at Carleton University. His activities at Carleton University include teaching a number of courses including Wood Engineering, Fire Dynamics and Wood Structures and Fire Safety. Dr. Craft also supervises graduate students in the Fire Safety Engineering program who undertake research in wood structures and fire. Dr. Craft's expertise is also recognized internationally having been appointed a member of the Scientific Steering Committee for the International Conference Structures in Fire.

SPECIALIZED EXPERTISE

- Fire Science and Engineering
- Standardized Fire Testing
- Wood Structures and Fire Safety
- Wood Design
- Standards Development
- Fire Research

COMMITTEES

2009 – Present	Chair of Fire Resistance Task Group, CSA O86 Wood Design Standard
2006 – Present	Chair of Task Group on Exterior Fire Tests, ULC S100a Committee on Fire Tests
2006 – Present	Executive Secretary, ASTM E05 Committee on Fire
2007 – Present	Scientific Committee for International Conference on Structures in Fire
2009 – 2011	ISO TC92 SC4 – Fire Safety Engineering
2008 – 2011	Secretary of CIB W14
2009 – 2011	Scientific Steering Committee, NSERC Strategic Network on Innovative Wood Products and Building Systems (NEWBuildS)

PROFESSIONAL REGISTRATIONS AND AFFILIATIONS

- Society of Fire Protection Engineers (SFPE)
- National Fire Protection Association (NFPA)
- Professional Engineers Ontario (PEO)

PROFESSIONAL EXPERIENCE

- 2011 – Present **CHM Fire Consultants Ltd.**, Fire Science Research and Engineering
Principal
- 2010 – Present **Carleton University**
Adjunct Professor and Lecturer
- 2006 – 2011 **FPIInnovations**, National Forest Products Research Institute
Senior Research Scientist

EDUCATION

- 2009 **Doctorate in Philosophy (PhD) (Fire Safety Engineering)**
Carleton University, Ottawa, Ontario
- 2001 **Bachelor's of Science in Forest Engineering (BScFE)**
University of New Brunswick, Fredericton, New Brunswick

PUBLICATIONS

- 2011 ***Investigation of the Behaviour of CLT Panels Exposed to Fire***
Craft, S.T., Desjardins, R. and Mehaffey, J.R.
Proceedings of the Twelfth International Conference Fire and Materials.
- 2011 **CLT Handbook, Chapter 8 – Fire Performance of Cross-Laminated Timber Assemblies**
Craft, S.T.
Published by FPIInnovations
- 2008 ***Predicting the Thermal Response of Gypsum Board Subjected to a Constant Heat Flux***
Craft, S.T.; Isgor, B.; Hadjisophocleous, G.V. and Mehaffey, J.R.
Fire and Materials, 32, 333-355.
- 2008 ***Modelling Heat and Mass Transfer in Wood-frame Floor Assemblies Exposed to Fire***
Craft, S.T., Isgor, B., Mehaffey, J.R. and Hadjisophocleous, G.V.
Proceedings of the Ninth International Symposium – Fire Safety Science
- 2008 ***Development of Small-scale Evaluation Methods for Wood Adhesives at Elevated Temperatures***
Craft, S., Desjardins, R. and Richardson, L.
Proceedings of the 10th World Conference on Timber Engineering
- 2007 ***Predicting the Temperature Rise in Light-frame Wood Floor Assemblies Exposed to Fire***
Craft, S.T., Mehaffey, J.R., Hadjisophocleous, G. and Isgor, B.
Proceedings of the Eleventh International Interflam Conference
- 2007 ***Predicting the Fire Resistance of Light-Frame Wood Assemblies***
Craft, S.T., Mehaffey, J., Isgor, B., and Hadjisophocleous, G.
Proceedings of the Eleventh International Conference on Fire and Materials
- 2006 ***Predicting the Fire Resistance of Light-Frame Wood Floor Assemblies***
Craft, S., Hadjisophocleous, G., Isgor, B. and Mehaffey, J.
Proceedings of the Fourth International Workshop, Structures in Fire

- 2005 ***Fire Response of Gypsum Board and Wood Framing***
Craft, S., Mehaffey, J., Hadjisophocleous, G., and Isgor, B.
Proceedings of the Eighth International Symposium, International Association for Fire Safety Science
- 2004 ***Analysis of Fire Experiments Conducted in Wood-frame Housing***
Craft, S., Mehaffey, J., Richardson, L.
Proceedings of Wood and Fire Safety Conference, Slovakia.
- 2003 ***Fire Experiments in Furnished Houses***
Mehaffey, J.R., Craft, S.T., Richardson, L.R. and Batista, M.
Proceedings of 4th International Seminar on Fire and Explosion Hazards
- 2002 ***Fastener head pull-through resistance of plywood and oriented strand board***
Chui, Y.H. and Craft, Steven.
Canadian Journal of Civil Engineering. 29. pp 384-388.
- 2001 ***Design capacities of joints with laterally loaded nails***
Smith, I., Craft, S.T., Quenneville, P.
Canadian Journal of Civil Engineering. 28(2). pp 282-290.