John Straube, Ph.D., P.Eng.

John Straube is a specialist building science engineer who has been deeply involved in the areas of building enclosure design, moisture physics, and whole building performance as a consultant, researcher, and educator.

He is also a faculty member in the Department of Civil Engineering and the School of Architecture at the University of Waterloo where he teaches courses in structural design, material science and building science to both disciplines. Energy-efficient, healthy, durable and sustainable building designs are a general goal of his research which is often supported by advanced computer simulation, laboratory testing and full-scale natural exposure performance monitoring.

Dr. Straube has consulted to many major building product manufacturers, government agencies (CMHC, NRC/IRC,UN, NRCan, DOE, EPA), and a range of design professionals and building owners. He has a broad experience in the building industry, having been involved in the design, construction, repair and restoration of buildings in Canada, the United States, Europe, Asia, New Zealand, and the Caribbean.

Considered an international expert in moisture-related building problems, his building science expertise has been applied to moldy roofs, failed masonry, leaky EIFS cladding, insulating Mongolian yurts, wet basements, rotting crawlspaces and attics, historically sensitive retrofits, and litigation support for buildings as diverse as commercial office towers, manufactured housing, and sustainable strawbale homes.

John has given hundreds of presentations to thousands of people across North America, Europe and Asia. He has also been involved in the preparation of design and construction guides for numerous organizations, and assisted in the development and delivery of short courses, web-based learning modules, and customer-tailored education programs. He has published dozens of technical papers in academic peer-reviewed conferences and journals as well as trade journals and magazines.

Education

University of Waterloo
Waterloo, Ontario
Bachelor of Applied Science

University of Waterloo
Master of Applied Science

University of Waterloo
Doctor of Philosophy in Building Science

Professional Registrations and Memberships

Registered Professional Engineer, Province of Ontario
American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Associate