



**Jonathan  
Smegal**

**Education**

Bachelor of Science Environmental Engineering  
University of Waterloo

Masters of Science Civil Engineering  
University of Waterloo

**Professional Membership**

ASHRAE

**Professional Experience**

Jonathan Smegal joined Building Science Consulting in 2007 after finishing his thesis on Drainage in Small Cavities in Wall Systems. Jonathan's thesis research consisted of more than 100 drainage tests on full scale walls of different constructions. The conclusions have been published in various forms, presented at the Alaska Building Science Network conference, and accepted to the 11th National Building Envelope Council (NBEC) of Canada conference.

During his graduate research, Jonathan worked for Balanced Solutions and helped

design, build and monitor numerous field tests on the performance of full scale wall systems in locations including Juneau, Vancouver, North Carolina, and Tampa. In the laboratory, Jonathan has assisted in the construction of a climate chamber, and has conducted many tests which include vapor permeance tests, and correlations of hygrothermal modeling to experimental analysis.

Jonathan's work for BSC includes laboratory research, hygrothermal modeling, field monitoring of wall performance, and forensic analysis of building failures. His other interests are in environmental links to buildings such as ecological impacts, sustainability and on site water treatment.

Jonathan's varied educational background from both environmental and civil engineering have lead to a broad spectrum of courses, from wastewater engineering, and river restoration to solar energy, concrete durability, and building science.

Associates