

Christopher Baldwin, Project Manager CABER

BRAG: Getting More Out Of Your Guarded Hot Box Testing.

This presentation will discuss the testing Carleton University is doing with their two-storey guarded hot box (GHB) at the Centre for Advanced Building Envelope Research (CABER). Over the past year, researchers at CABER have developed testing procedures for determining the hygrothermal response of wall systems using their GHB. The two sides of the GHB are utilized as environmental chambers, and the response to changing temperature, humidity, and pressure differentials across a wall sample can be measured and assessed. This testing methodology will be discussed, utilizing multiple case studies from tests conducted at CABER over the past year. Finally, the potential for this type of rapid, controlled hygrothermal testing will be discussed.

Krista Rowan, PHD Student, CABER

BRAG: Hygrothermal Testing and Material Characterization For Retrofit Of Old Brick Structures

Retrofitting mass masonry walls is an important topic for both heritage conservation efforts and improving the performance of our existing building stock. Carleton's Center for Advanced Building Envelope Research (CABER) is participating in a brick retrofit project aimed at improving the structural and building envelope performance of load bearing brick masonry walls with the intent of retrofitting old industrial style buildings into housing. As masonry materials are heavy, hygroscopic, and heterogeneous, thermal testing alone is not sufficient. Krista will present on the hygrothermal testing that was completed in the Guarded Hotbox (GHB) at CABER on the four retrofit approaches as well as the material testing conducted to confidently characterize the masonry material used for hygrothermal modelling.

ROOM FOR MORE PRESENTERS!

If you would like to share an interesting experience at this session, please submit a brief outline summary of your session by end of day on Tuesday, January 21, so that you can be included in our later announcements.

Submissions are to be submitted to Tony Colantonio, at alsomi@bell.net.

Planned Agenda

11:45 am	Registration and Networking
12:15 pm	Lunch Served
12:55 pm	Opening Remarks
1:00 pm	Session 1: Gregory E. Clunis, George Torok, Sydney DeBenedictis
1:45 pm	Refreshments and Networking Break
2:00 pm	Session 2: Jerry Hacker, Christopher Baldwin, Krista Rowan
2:45 pm	Q&A session