

Having trouble viewing this email? [Click here](#)

You're receiving this email because of your relationship with Building Science Corporation. Please [confirm](#) your continued interest in receiving email from us.

You may [unsubscribe](#) if you no longer wish to receive our emails.

information consulting bookstore seminars

# building science.com e-news

Changing the way the world builds. People. Ideas. Integrity.

August 18, 2008 Issue # 5

Dear Jeffrey,

Do you want to keep the heat out during the rest of this cooling season? Do you want to keep it in during heating season? Then you need to avoid the dreaded thermal bridge. Read Joe Lstiburek's article on thermal bridges below.

To view a list of past newsletters, click [here](#) for our archives.

Happy reading!



Jeff Melvin  
Editor, buildingscience.com e-news

[Forward buildingscience.com e-news to a friend!](#)

**Featured Article** by Joseph Lstiburek, Ph.D., P.Eng., Fellow ASHRAE

## A Bridge Too Far

Building Science Insight No. 5

For a bunch of supposedly clever folks we sure do dumb things. One of the big ideas of the past couple of decades or so is to keep the heat out during cooling and keep the heat in during heating. The better we are at this the less energy we need to use to condition the interior. Apparently this concept has not caught on. How else do we explain modern construction that uses steel, concrete, aluminum and glass the way we do? For those who somehow missed high school physics, steel, concrete, aluminum and glass are all thermally conductive materials. Except for concrete, we make frying pans out of all of them. If an alien from another planet looked at our construction practices he would conclude that we have too much heat in buildings and we want to reject that heat to the outside. We expose our concrete slab edges and our concrete frames. We build our structures like heat exchangers with protruding fins that transfer every last available BTU across them-like huge concrete "Harleys" with air-cooled structural frames.

This logic (actually "illogic") starts with the field of the wall...

**To read the entire feature article and find a downloadable pdf version, click [here](#) to visit our web page.**

**Building  
Science  
Press**  
*Building  
with Books*

**Now  
Available!**



Andrew C. Ask

## **H<sub>2</sub>NØ: MECHANICAL SYSTEMS AND MOISTURE CONTROL**

This new guide is for evaluating, designing, and retrofitting HVAC systems for better moisture removal and control.

Mechanical Moisture Management will be welcomed by building contractors, architects, mechanical engineers, building science researchers, building product manufacturers and homeowners.



Click [here](#) to read more about Andy Ask's new book at [buildingsciencepress.com](http://buildingsciencepress.com)

## **BUILDING SCIENCE FUNDAMENTALS 2008**

A two-day introductory seminar on building science topics

Come Learn From Dr. Joe and Dr. John in person at [Building Science Fundamentals 2008!](#)

Building Science Fundamentals 2008 is an advanced two-day seminar taught by Dr. Joe Lstiburek and Dr. John Straube about optimizing building performance. That is, designing buildings that perform as they should: efficiently and without assemblies that spall, decay, corrode, peel, blister, mold, condense water, leak air and water and otherwise annoy occupants, clients and authorities with jurisdiction. You will learn how to correct these problems in existing buildings and how to avoid them in new buildings.

You will learn fundamental building science principles (such as the control of heat, air and moisture and IAQ) as well as applications in disaster management, building investigations and sustainability.

Here is a list of remaining seminars for 2008:

[Vancouver - October 1, 2](#)

[Chicago - October 15, 16](#)

[Toronto - November 12, 13](#)

[Minneapolis - Dec. 3, 4](#)

### **BUILDING SCIENCE EXPERT'S SESSION**

**December 17-18, 2008**  
**Westford, MA**

In response to overwhelming demand, Dr. John and Dr. Joe have constructed an advanced class for all Building Science Fundamentals guests. Did the Fundamentals seminar whet your appetite to hear more? Judging by the comments we have received, that is exactly how many of you feel!



Click on the link below for more information:

[Westford Expert's Session Dec. 17, 18](#)

**Sign Up For This Newsletter!**

## About BSC

**Building Science Corporation** is a Boston based architecture and building science consulting firm with clients throughout North America.

**Building Science Corporation** specializes in building technology consulting. Our focus is preventing and resolving problems related to building design, construction and operation.

We are internationally recognized for our expertise in moisture dynamics, indoor air quality, and forensic (building failure) investigations. We are also on the leading edge of the design of sustainable communities and buildings.

We believe in promoting energy efficiency and environmental responsibility within the constraints of marketable and affordable building technology.

Read More About Us: [www.buildingscience.com](http://www.buildingscience.com)



You are receiving this newsletter either because you have requested it or because of your relationship with Building Science Corporation.

To opt out any time from receiving this newsletter, click on the "unsubscribe" link below. Otherwise, to ensure that you continue to receive this newsletter, please add [newsletter@buildingscience.com](mailto:newsletter@buildingscience.com) to your address book now.

Your privacy matters to us.  
We are not going to sell, rent, lend or share your information with others.

Copyright © 2008 Building Science Corporation, All rights reserved

You may reproduce this article by including this copyright.

### [Forward email](#)

✉ [SafeUnsubscribe®](#)

This email was sent to [jeff@buildingscience.com](mailto:jeff@buildingscience.com) by [newsletter@buildingscience.com](mailto:newsletter@buildingscience.com).  
[Update Profile/Email Address](#) | Instant removal with [SafeUnsubscribe™](#) | [Privacy Policy](#).

Email Marketing by



Building Science Corporation | 30 Forest St | Somerville | MA | 02143