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Building Homes That Last: *What builders, owners, designers and regulators need to know*

Our goal should be to build homes with 2 to 3 times the thermal resistance they currently have.

BUT when we are adding insulation, complex wall assemblies and new and innovative cladding products, we risk vapor and moisture problems. Teaching Building Science should be a fundamental element to every building program seeking to mandate construction of homes that are long lasting, healthy and energy efficient.

#1 Resource for Building Science details, methods, and materials:

Builder's Guide to Cold Climates by Joseph Lstiburek

Building Science Press, 2006

ORDER ONLINE: www.buildingscience.com

CERTIFICATION, CLASSES AND TESTS

Annual and semi-annual day intensive courses can demonstrate some of the major problems that result from not following good building practice and present solutions. Key speakers could be:

David Johnston, What's Working www.GreenBuilding.com

Joe Lstiburek, Building Science Consultant www.buildingscienceconsulting.com/

John Krigger, Saturn Resource Management (see below) www.srmi.biz/

Online training to become an Energy Rater and more.

Building Knowledge Consulting (see below) www.buildingknowledge.com/

RESNET for Energy Rater training and more. <http://www.resnet.us/>

THIRD PARTY VERIFICATION CONSULTANTS aka "QUALITY CONTROL SPECIALISTS"

Architectural quality control specialists are multi-disciplinary firms with expertise in many areas of building science. They provide services such as: peer review of construction documents, building code and accessibility analysis, contract review and construction observations. Having an objective third party review plans helps to ensure that no critical design elements are overlooked or incorrectly specified.

Professional Investigative Engineers ("PIE") www.callpie.com/

Arvada, Colorado 1.866.552.5246

The Architectural Alliance Group, LLC www.aag-adr.com/

Denver, CO 80205 303-295-1418

Ian Mackinlay Architecture (Cold and Snow Experts) www.ima-arch.com/

Lafayette, CO 80026 303-926-9080

ONLINE RESOURCES:

What's Working <http://www.greenbuilding.com/>
Superb, simple resources. Training courses. Launched February 2009.

Building Green Inc. www.BuildingGreen.com
Leaders since the 1980s. Publishers of Environmental Building News and GreenSpec.

Building Science Corporation www.buildingscienceconsulting.com/
*Building technology consulting firm internationally recognized for expertise in moisture dynamics, indoor air quality, and forensic (building failure) investigations. Online articles include:
"Air Pressure and Building Enclosures"; "Water Management Details – Housewraps/Flashings/Windows"
"Understanding Attic Ventilation"*

Green Building Advisors www.GreenBuildingAdvisor.com
New in 2009! Dedicated to providing the most useful, accurate, and complete information about designing, building, and remodeling energy-efficient, sustainable, and healthy homes.

ReGreen Program www.regreenprogram.org/
Premium green remodeling guideline. USGBC & ASID, Co-authored by Eric Doub

Building Knowledge www.buildingknowledge.com/
Offering comprehensive seminar and workshop based training programs including: "Comprehensive Building Science Training"; "Rain and Moisture Management"; "Marketing and Selling a Better Built Home"

Saturn Resource Management www.srmi.biz
*Consultants, trainers, publications, and curricula for raters and building professionals. Resources include:
"Residential Energy: Cost Savings and Comfort for Existing Buildings"; "Quick-Tips Reference Sheets"
"Comprehensive Home Energy Curriculum"*

Minnesota's GreenStar Program www.mngreenstar.org/
Minnesota-based homeowner education initiative offering an interactive website with guides to maintaining and living in a healthy, efficient home. Key features: Monthly calendars and Photo- and image-based "how-to" guides

HomeSmart www.home-smart.org/
Green building standard and certification program offering a full range of benefits to certified homes and builders. Certification can result in: Tax credits, rebates on building materials, mortgage rate discounts, and more

Best of Building Science www.bestofbuildingscience.com/
Movie clips from building science leaders at national building conferences discussing basic building science rules

Building America Program www.eere.energy.gov/buildings/building_america/
Providing literature and guidelines to energy solutions for new and existing homes

Journal of Light Construction www.jlconline.com/
Journal and publications featuring the latest in building science philosophy

Energy and Environmental Building Association www.eeba.org/
Conferences, lectures, website content, networks, & publications following developments in building science

Ft. Collins Utilities www.ColoradoNewHomeChoices.org
Source of the excellent packet on comfort, health, durability and value – and Questions to Ask your builder and architect. Full guide in a compact space; worth many trainings and books!

Efficiency First www.encyfirst.org
Efficiency First represents America's Home Performance Workforce, ranging from energy auditors and raters to contractors who are the front line of our climate battle, embodied in green-collar jobs from weatherization to HVAC.

Ecofutures Building, Inc. www.ecofuturesbuilding.com
Many resources, including notes on our design for a 5,200 sf custom home costing 5% more to achieve zero net energy

Boulder Green Building Guild www.bgbg.org *Links to many resources.*

Center for Resource Conservation *Excellent overview and discussion, with comprehensive resources list.*
http://www.conservacioncenter.org/assets/GreenBuildingresourcesfinal_000.pdf