



BUILDING SCIENCE EDUCATION WEBINAR

Webinar: April 2, 2015, 12:00 p.m. EDT

Presenters/Facilitators:

Patrick Huelman: [Joint Committee on Building Science Education](#); & U MN

Paul Totten: [NIBS/BETEC Education Committee](#); & Catholic University

Host: Prof. Georg Reichard: VA Tech

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For assistance

You can contact Georg Reichard at:
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AGENDA

- **Announcements and Upcoming Conferences/Events**
- **Background/Objectives for Current Webinar Series**
- **Standard Slides - to introduce the basic principles of building science in any course**
- **Infusion into Text Books, Slides & Curricula – universities & community colleges**
 - Reviewers/Authors/Publishers of Text Books/References
 - Possible Approaches for Infusion
 - Needs for Different Academic Disciplines/Levels
- **Sharing of Lectures – peer-review process for lectures by committee members**
- **Paving the Path Forward**
- **Dates for Next Webinars**



ANNOUNCEMENTS AND UPCOMING CONFERENCES/EVENTS

➤ **Announcements**

- **New BETEC-Education Chair**
- **2016 Race to Zero – to be announced at RTZ Golden Event**
- **Toronto Sequel BSE Workshop – Week of January 11, 2016**
- **BUILDINGS XIII – BSE Update – Dec. 2016**

➤ **EVENTS -- See: www.BuildingScienceEducation.net/Events**

- **BEST 4 Conference**
- **NOTE Call for Papers Deadlines**
- **Race to Zero Event – Golden, CO – Faculty Feedback/Needs**
- **AIA Convention – Atlanta – May 13 BE Commissioning Workshop**
- **ASHRAE Atlanta**
- **Westford BSE Update – August 2 – Tentative**



BACKGROUND/OBJECTIVES FOR CURRENT WEBINAR SERIES

- **Webinar Series to Fulfil Needs Addressed in Toronto BSE Workshop**
 - **Infusion of Building Science into Traditional Courses** (resources and methodologies);
 - **Identify, Review & Share Resources for a Building Science Fundamentals course**
 - And, as time permits, address **Specialized Courses**, e.g., Building Science for Building Enclosures, Building Forensics, Commissioning, etc.

- **Develop “Easy” Steps to Begin or Expand & Improve Building Science Education – In Spite of University Constraints**

- **Share Results on Committee Website**
 - **Working Files – Under Review**
 - **Peer Reviewed Resources**



STANDARD SLIDES – BUILDING SCIENCE BASIC PRINCIPLES

➤ **Current Status**

- **Building Science Fundamentals Text, w Slides, Under Development**
- **Race to Zero Fundamentals Webinars**
- **Many Slides from Building Science Presentations Posted**

➤ **Next Steps –**

- **Identify, Review & Share Application of Slides to Building Science Fundamentals Course (or Adapted Related Courses) – Model Curricula**
- **Identify Gaps/Revisions in Slides and other Resources**
- **Share your Better Slides/Handouts**



INFUSION OF BUILDING SCIENCE INTO TRADITIONAL COURSES

- **Transformation of Textbooks & Associated Teaching Aids**
 - **LONG TERM, Important Objective**
 - **Who plans to, or is, authoring or reviewing new textbooks & teaching aids?**
 - **How can we present best building science practices?**
 - **Can our Committees Help?**
- **EXAMPLE: Next Architectural Graphics Standard is Under Development – the Student Version is REQUIRED for all Students of Architecture --- Would all Details Represent Best Practices?**
- **Please Contact US – For this Longer Term Effort**



INFUSION OF BUILDING SCIENCE INTO TRADITIONAL COURSES

- **NEARER TERM OPPORTUNITY**
- **Improving “What” Students See; Assure “What” represents Best Practices**
- **Seek Opportunities to Explain “Why”**
- **Review Traditional Courses for Opportunities to Infuse Building Science**
 - **Vertical: Community College, Undergraduate, Graduate**
 - **Horizontal: Architecture, Construction Management, Engineering**
- **Example of Undergraduate/Community College Courses**
 - **Materials & Methods**
 - **Construction Documentation**
 - **Environmental Systems; Sustainability, etc.**
- **Review of Course Textbooks, Associated Slides/Teaching Aids**
- **Coping with Existing Textbooks & Teaching Aids**
 - **Review the Textbooks for Poor Building Science Details/Practices**
 - **Provide Errata – Slides & Handouts to Show Best Practices**
- **Share Results of Your Review with BSE Committees Peer Review**



INFUSION OF BUILDING SCIENCE INTO TRADITIONAL COURSES

Help Build Our Infusion Knowledge Base

- **What Courses Do You Recommend for Initial Infusion?**
- **What Textbooks and Other Resources are Recommended or Required for These Courses?**
- **Do the Course Slides & Recommended Reading Assignments Represent Best Practices?**
- **Provide Examples of Problem Content in Such Resources, and Suggested Corrected Slides, Errata Handouts, etc. Expose Students to Details Showing Best Building Science Practices.**
- **Share Approaches for Infusing the “Why” Such Details Represent Best Practices**



SHARING OF LECTURES

- **To Be Addressed in Greater Detail in NEXT Webinar**
- **Examples of Currently Shared Resources**
 - www.BuildingScienceEducation.net/Resources page
 - [Toronto BSE Workshop page](#)
 - [NASULGC BSE Workshops Final Report](#)
- **Please Contact BSE Committees with your Recommendations**



PAVING THE WAY FORWARD

Open Discussion

Facilitated by: Paul Totten, Pat Huelman, Sam Taylor & Georg Reichard



NEXT WEBINARS – INTERIM PREPARATIONS

Please Comment on the Following Tentative Dates:

- **April 30**
- **May 5**
- **May 7**

Please Provide Information Requested in Webinar

- **Help Building the Infusion Knowledge Base**
- **Provide Input for Shared Curricula**