



Emerging Professionals Network

AIA New Hampshire

NH forum

For those who shape the built environment



Cities in the future will offer a unique setting for resources, people, opportunities, and ideas to converge and spur new avenues of innovation, technology, and thought. To match this impending social evolution, future architects, designers and engineers will need to create an equally worthy technological evolution. Ideally, cities of tomorrow will evolve into highly efficient, highly technical habitats for large populations.

Maria Aiolova to Speak April 30



The next AIANH Chapter Meeting is with the Keene State College Architecture Department on April 30, which will include a fascinating presentation from Maria Aiolova Assoc. AIA, LEED AP on "Future Cities Envisioned." Please join us for an evening that promises to be full of energy and inspiration! The annual event draws architects, KSC students and faculty, and some high school students and provides an opportunity to see KSC student work, project entries to the AIANH High School Design Competition (a Welcome Center at Monadnock State Park), and the KSC student "myMarvin" Studio competition designs for a Student Success Center. A reception and dinner will precede Ms. Aiolova's talk. Things happen at this program! Students love the opportunity to talk with practitioners, and we know of a couple of firms who have found future employees at this meeting. Details and registration at www.aianh.org/news-and-events.

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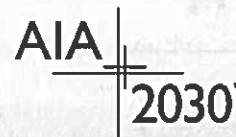
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AIA+2030: Prepare for the New Energy Future...

Session IX Recap

by Dale Doller AIA, LEED AP. Photos by John W. Hession



The mission of the AIA 2030 Commitment program is to take the aspirational goals of 2030 and transition to the reality of achieving tangible, strategically targeted, performance goals on every project we touch.

Session IX, January 22, 2015 — The Hand-Off + Staying in Shape: Operations, Maintenance + Education

We offer our thanks to the Session IX presenters: Bill Root PE, GWR Engineering; Brian Buckley from Northeast Energy Efficiency Partnership; and Paul Leveille with Resilient Buildings Group. Their expertise added to the wealth of knowledge we've received throughout this Series, helping us make better choices for our clients in our ever changing environment.

During Session IX we learned about the tools available to the design professional to match the design effort with the construction process. Why should we need to know this? We need to stand behind our design efforts early in developing a client's vision with improved building performance. We need to provide our clients with the product they expected and the improved performance we designed them to have. Detail design phase modeling and evaluation paired with construction phase commissioning and testing will assist the project team in delivering a better product and meeting our clients expectations. What are some of those tools? Let's check it out.

Bill Root shared the benefits of monitoring, education and evaluation. Commis-

sioning during construction is the best tool we have. In summary, these are the important "take-aways" of his talk:

1. Monitoring makes benchmarking easy
2. Tailor monitoring & reporting to each project
3. All projects should have an OPR (Owner Project Requirements).
4. All projects should have a BOD (Basis of Design)
5. Commissioning design review can help minimize extras, delays & disappointments at closeout.

6. Allow time in a project schedule for control preparation for commissioning agent activities.

7. Proposed Building must be modeled before bid documents go out.

8. Use Energy Modeling for EUI (Energy Use Intensity) reduction analysis.

We learned about tools like the EPA "Target Finder" and the Architecture 2030 US Target Tables; guides like ASHRAE's Building Energy Design Guide and Energy Star's Guidelines for Energy Management. And, we discussed EUI and the "Building



Bill Root engages with participants. Surrounding him are Doug Stewart AIA and Christina O'Brien AIA.

Energy Quotient," ASHRAE's Building Energy labeling program.

Brian Buckley introduced us to NEEP, the Northeast Energy Efficiency Partnerships...an organization with a mission to accelerate the efficient use of energy in the Northeast and Mid-Atlantic Regions through collaboration, education, and advocacy. And he educated us about the use of the program, "NE-CHPS" (North-east Collaborative for High Performance Schools). Like LEED, NE-CHPS is useful in the design process for schools from pre-K through college with guidelines to assist

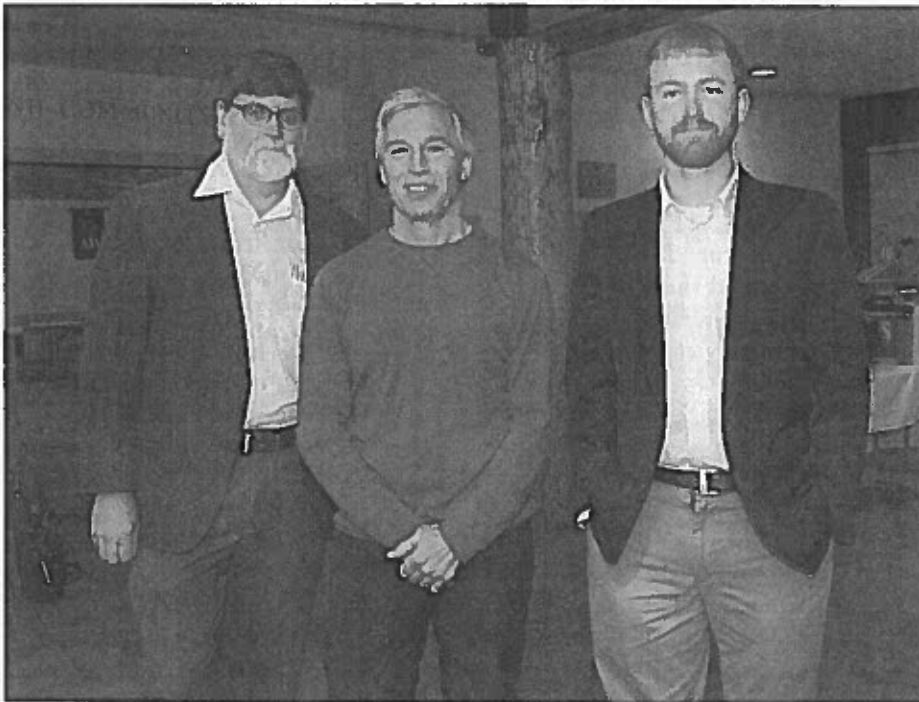


Kate Hartnett Hon. AIANH working on one of the exercises

aianh.org



Brian Buckley interacting with participants during an exercise

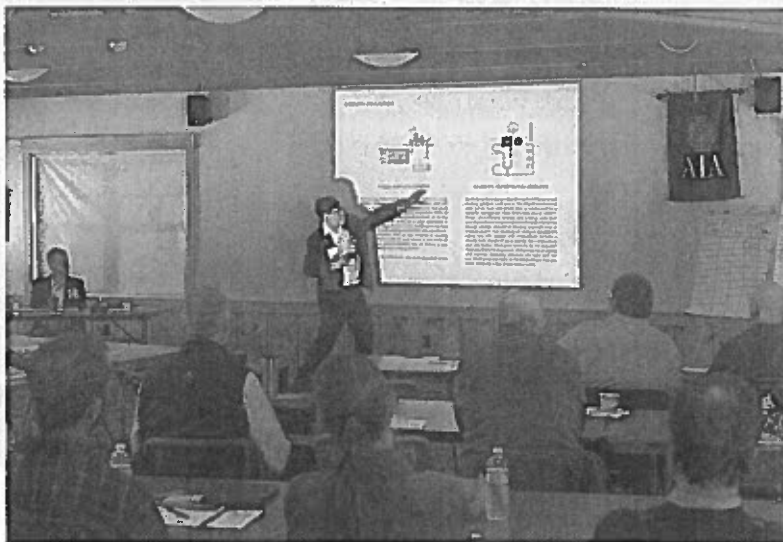


From left, Paul Leveille, presenter and Session organizer; Bill Root PE, GWR Engineering; and Brian Buckley, Northeast Energy Efficiency Partnership.

in improving performance design. There are a number of schools in our area that have utilized NE-CHPS. Brian showed us a few case studies here in NH. They were Profile School in Bethlehem, Merrimack Valley High School in Penacook, and Keene Middle School in Keene.

And to wrap up this session, Paul Leveille discussed putting all this together with early design evaluation steps, on-site monitoring, and commissioning. He showed us the challenges of our imperfect business world of designing buildings with finite design and energy calculation tools and then executing with materials and labor in the field, brick by brick and stud by stud. "The Devil is in the Details!" We saw the results of design and reviewed implementation through a num-

Paul Leveille shared his expertise



ber of case studies he has been involved in.

Next month, you'll hear about our final Session of the AIA+2030 Series.

I'd like to again thank our sponsors for their support to this important educational series and their belief and dedication to sustainability.

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AIANH

presents the

AIA+2030

Professional Series

Preparing architecture and engineering professionals for the new energy frontier.

Our final Session (X) was held February 26. A recap of that program will appear in the April NH Forum.

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