PASSIVE BUILDINGS CANADA

Mentoring plus 50% off courses/presentations for PBC members with passive house expert and Regenerative Explorer Adam Cohen

Passive Buildings Canada members can now book free (phone or video) mentoring with Adam Cohen as well as get 50% off Adam's course fee for the courses below. Adam can offer these courses to businesses and small organizations.

Student/Senior member = 1 hour minimum mentoring time
Individual member = 2 hours
Business = 3 hours

Adam Cohen

Adam is a leading North American Passive House practitioner whose innovative work on market rate delivery of commercial high performance buildings has made his expertise sought-after for projects across North America. He served as Vice-Chair of the Passive House Institute US technical committee for 5 years and is co-creator and teacher of Passive House Institute US's builder training curriculum. Adam is a current board member of Yestermorrow Design/Build School and past board member Passive Buildings Canada.

His work's impact has recently been recognized with the award of the Edmund Hillary Fellowship as a Global Impact Entrepreneur. The Edmund Hillary Foundation fosters humankind's creative potential from Aotearoa New Zealand, by supporting a community of impact entrepreneurs, investors and changemakers to build meaningful solutions to global problems.

- Certified Passivhaus Consultant - North America and Europe
- Registered Architect ON, NZ, NCARB, VA, NC, MD, VT, NH & CO, LEED AP, NAHB Green Professional
- 2018 Edmund Hillary Fellow, Global Impact Entrepreneur
- 2013 Green Builder Green Home of the Year
- 2012 VSBN Green Designer of the Year
- 1st North American Passivhaus certified public school
- 1st North American Passivhaus university student center
- 1st in the world Passivhaus dental clinic

- 1st and 2nd North American Passivhaus religious assembly building
- 1st in the world Passivhaus with a commercial kitchen
- 1st large North American Passivhaus project – a college dormitory
- Inventor of the Build SMART Passiv Component construction system

Mentoring

"Call me" says Adam! Interested in getting feedback on a tricky PH design issue? Wondering about how to better use an Integrated Project Delivery Process? Want to get a better understanding on LEAN approaches? Each PBC member can book at least hour of Adam's time during a 12 month period (more if time permitting). Interested? First contact Matt Adams at: info@passivebuildings.ca and he will send you a link to Adam's PBC appointment calendar. Please note that this is not Adam's public calendar.

Note that the mentoring Adam gives in no way constitutes delivery of professional services. The mentoring work is in the form of coaching and opinion.

Courses/presentations

Adam offers a wide range of courses and will come to your office/organization to deliver them. PBC members get 50% off his presentation fee[1]. Meetings can be held online through video conference[2]. Most presentations can be given in a few different lengths - ranging from 30 minutes to up to 3 hours. The fees for these courses go directly to PBC, so by booking these courses you are supporting PBC.

Passiv for the Masses:

Tunneling through the Cost barrier through innovative design and production methods. The climate change emergency has made taking high performance buildings into the mainstream a high priority. This presentation will outline the techniques the presenter is employing to design, manufacture and construct Passivhaus buildings for the same cost (or less) than standard code buildings. Adam's systems have the potential to change the way we build in North America.

The presentation can be given in following three time formats: 30 minutes, 45 minutes, 60 minutes

Learning Objectives

- Understand the reasons that high performance buildings are not the current status quo
- Discuss the design decisions that must be made to produce low energy buildings at market rate
- Describe the changes to the industry standards of pre-manufacture that must be made to create the framework for market rate high performance.
- Discuss examples of projects that employ these concepts.

[1] If in person, transport and lodging may be required.
[2] (provided by Adam through GoTo meeting)

Lean Integrated Project Delivery of Passivhaus: A pathway to high performance at market rate

We can build buildings today that use 50%-70% less energy for the same cost as standard construction. We have the desire and talent the only thing we are lacking is the methodology.

Because Passivhaus is an integrated design and construction system that relies on holistic analysis of the building and looks for and leverages the synergies with the building system as a whole, one must search for a delivery method that allows for integrated approached to all systems, means and methods. To do this one needs to embrace an integrated concept with the combination of integrated delivery, LEAN construction, BIGg BIM and relational contracting.

The presentation can be given in following three time formats: 45 minutes, 60 minutes, 90 minutes

Learning Objectives

- Understand basic Passive House design principles for commercial and institutional buildings
- Be knowledgeable about commercial and institutional case studies for buildings
- that achieved Passivhaus and were built at market rate
- Understand how Integrated Project Delivery systems can help a project achieve
- Passivhaus affordably by capturing money typically left on the table
- Understand how LEAN construction and Passivhaus are complimentary

Understanding the Three Levels of LEAN

An impediment to implementation of Passive House on a larger scale is the design/bid/build delivery system employed by the industry. One of the techniques put forward to help resolve this issue is LEAN construction. Unfortunately, LEAN is often misunderstood and implemented without true understanding of what LEAN means. This presentation will discuss the three levels of lean understanding that are required for successful implementation of LEAN.

The presentation can be given in following three time formats: 45 minutes, 60 minutes, 90 minutes

- Understand the highest level of LEAN thinking and action and why a basic understanding of this is required before implementing LEAN techniques.
- Describe the second level of LEAN and what it means to the successful implementation of LEAN techniques
- Understand the third level of lean and how LEAN tools are designed to be used in the real world
- Discuss the decisions required to LEAN a project

A Practical Means to Achieve Air Tightness in Buildings

As the design and construction industry begins to realize the importance of air tightness in construction, for many, the actual implementation of this is an amorphous and scary concept. This presentation looks at practical means for assuring air tightness in buildings in both the design and implementation.

The presentation can be given in following three time formats: 45 minutes, 60 minutes, 90 minutes

• Understand why airtightness is important.
• Describe the first and most important step in achieving airtightness.
• Understand the real world implementation of building fabric airtightness.
• Discuss the quality assurance of air tightness in buildings and why this is important.

Introduction to Passiv Buildings: Leveraging physics and intelligent solutions for high performance at market rate

For many teams, it is an almost impossible challenge to simultaneously deliver high performance, cost efficient buildings while maintaining high customer satisfaction and profitability. It is not uncommon for high performance commercial buildings to cost 10% - 20% more to build than conventional buildings. Cost efficient high performance buildings rely on holistic analysis and implementation of design, construction and testing to produce consistent results. This presentation will explain the history and basics of Passiv design principles. It also examines integrated project delivery methods essential within the design and construction team taking joint responsibility for decisions and actions from schematic design through project construction, commissioning and monitoring. Built examples and areas for capturing money typically left on the table in conventional design- bid-build project delivery situations will also be discussed.

The presentation can be given in following three time formats: 60 minutes, 90 minutes, 180 minutes

- Understand the history of low energy Passiv Building
- List the three metrics used to define low energy Passiv buildings
- Understand the difference between traditional delivery methods and integrated
- Project delivery as a way to reduce project costs.
- Provide built examples of North American Passiv Building Projects
- Apply Passive House methods to produce buildings that provide a sense of well-being among the occupants
- Learn this system's advantages, promoting health, safety and welfare issues.
- Understand state of the art energy conservation in non-solar technologies and their best practice applications.