Learning Objectives

You’ll be able to:

Receive an overview of the history of energy-conserving residential construction.

Explore the Passive House standard and identify common and useful energy calculation tools.

Create super-insulated envelopes and implement seasonal heating and cooling strategies.

Learn how to optimize heat gains and integrate renewable energy systems.

Review case studies of completed passive house projects.
**Faculty**

Cody Farmer  
Mainstream Corporation

Before there was green building for Cody Farmer, there was vision of the future. When he was growing up the family would work to build with friends and family. Co-founding Mainstream Corporation in September 2007, the door opened to that dream. Building some of the nation’s highest and best known Passive House Projects, Mainstream has since become a local go-to for Passive House and performance building businesses with keen focus on the deployment of integrated design results, advanced building envelope, air tight detailing, ventilation and indoor air quality, energy modeling and contractor training. With roots in real estate investing, he has successfully brought Passive House principles to tiny homes, “McMansions”, Mighty Arrow Passive House, Gilcrest Library, Pelican Lake Ranch maintenance building, City of Lafayette building, City of Fort Collins, Passivista, Traveler’s Rest Passive House and the pinnacle passive solar house. A business marketing graduate of the University of Colorado at Boulder College of Business 2001, he spent several years prior serving as the director of marketing for a high tech IBM helping bring new government funded projects into the marketplace. In 2007 he served as a member of Colorado’s Air Force National Guard unit at Gixley’s 157th Space Warning Squadron working with remote space surveillance. He then obtained an M.S. degree in Construction Management and Sustainable Building at Colorado State University 2012.  

**Seminar Information**

**Holiday Inn Denver Cherry Creek**  
455 South Colorado Blvd.  
Denver, CO 80247  
(303) 388-5561

**Tuition**  
$279 for individual registration  
$259 for three or more registrations.

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**Registration**  
Passive House: Planning and Design  
Denver, CO - Friday, July 27, 2018

**How to Register**  
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**Webinar Series**

**Pedestrians and Bicycle Transport Planning**

- Introduction to Current Conditions and Trends in Biking and Walking  
- ( Mandatory in Columbus)  

- Engineering and Infrastructure:  
  - Design for Walkability and Bikeability  
  - Developing a Walking and Biking Plan, Part I  
  - Developing a Walking and Biking Plan, Part II

- More information for registration visit:  
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**Additional Learning**

**Continuing Education Credit Information**  
This seminar is open to the public and offers 6.50 HSW continuing education hours to architects in all states, except Florida architects. Educators and courses are not subject to preapproval in Colorado. This course also offers 6.50 PDHs to professional engineers in all states. It is mandatory in Columbus.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J888). Full attendance can be reported to the AIA/CES.  

HalfMoon Education is an architect continuing education sponsor in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Agreement No. 24G00000700), New York, (NYSED Sponsor No. 355), North Carolina, and North Dakota.

This event also offers a non-credit continuing education opportunity to construction contractors. It has not been submitted to any state contractor licensing entity for continuing education approval.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

**Health and comfort, their principles bring value ten-fold. Their specialty in air tightness and ventilation provide significant energy savings on all their projects, while two have managed to achieve the third party Passive House certification. The buildings electrical use will significantly be reduced from today’s code built construction. Mr. Preiss is a certified Passive House assessor in Mainstream to design these resources not only for custom residential, but also to tiny homes, energy efficient building, homes and libraries.**

**Hans Joachim Preiss, BrightSense LLC**  
Mr. Preiss is based in Boulder, Colorado, where he is working to simplify the approach to net zero energy buildings to the point where it becomes affordable and mainstream. He always considers all the components that make up the system we call “building,” but his main focus is the building envelope. He is the author of a project for a Passive House Consultant designation in 2012 and is intimately familiar with both PHPP and WUFI-Passive. He runs energy models and coaches architects and builders on how they can change building envelopes change in order to meet Passive House Standards. Together, the Farmers have succeeded in designing some of the healthiest and most comfortable buildings using the Passive House design strategies. With project owners who need and desire a healthy and comfortable place to live, their work focuses on creating a net positive energy building that is healthier and can exist off-grid. She obtained her MBA degree with a focus in Marketing and Entrepreneurship.

**Andrew Michler, CWC**  
Mr. Michler is the designer of MARTaK, the award winning first-certified, International Passive House in Colorado. His work includes building design, environmental architecture writing and theory, bespoke projects, and multi-media. He is the author of the book Hyperlocalization of Architecture and has presented globally on Passive House and the future of sustainable building design. He is the chair of Passive House Rocky Mountains, part of the North American Passive House Network.

**Lisa Farmer, Mainstream Corporation**  
Navy veteran Lisa Farmer returned to Colorado in 2001 after serving six years. She continued her training from the military to include a Civil Engineering degree from Colorado State University in 2004, later obtaining her professional engineering license in 2007. Beginning in the water resources sector, she became an excellent project engineer for water systems and reservoirs. She managed project schedules and budgets, and sub contractors from design through construction. Taking these skills further into the built environment, she joined her husband Cody at Mainstream Corporation in 2012 to design buildings that are carbon neutral and exceed the standards for Passive House. She obtained her Certified Passive House Consultant designation in 2012 and is intimately familiar with both PHPP and WUFI-Passive. She runs energy models and coaches architects and builders on how they can change building envelopes change in order to meet Passive House Standards. Together, the Farmers have succeeded in designing some of the healthiest and most comfortable buildings using the Passive House design strategies. With project owners who need and desire interior