NEW: Tiny Living Workshop Track!
Whether you are looking to build a tiny home on wheels, build a small house, or downsize your lifestyle, our Tiny Living Workshop Track will help you find answers to achieve your goals. And swing by the Tiny Home Alley, to tour a variety of Tiny Homes throughout the weekend and meet the owners/builders. Ask questions and learn how people have retrofitted existing vehicles or built their tiny home from scratch.

Featured Tiny Living Workshops:
- Design and Build a Tiny House (A17)
- Extreme Downsizing (A23)

Tiny Home Alley: Make sure to visit the Tiny Home Alley over the weekend. Tour a variety of Tiny Homes and meet the owners/builders. See page 15 for more info.
- Retrofitted FedEx Van
- Tiny Home on Wheels
- Solar Shed by Next Energy Solution
- Tiny Tiny House Model (at Silent Auction/Info Tent)

A1. A Deep Energy Retrofit Case Study: Step-by-step case study of a deep energy retrofit of a 1902 masonry two flat on Chicago’s west side. The goal: turning the building from an energy hog into a net zero energy building. Marcus de la fleur, Principal, Dip. Hort. Kew, ASLA, PLA, de la fleur, LLC. Friday 3:30 p.m. in the Brown Flag Tent

A2. Achieve Your Green Dream Home by Remodeling: Remodeling can be even greener than building new! Learn tips and tech that help save material, reduce waste, protect undeveloped land, and have more time/money for green materials and sustainability. Della Hansmann, Architect. Friday 2:30 p.m. in the Brown Flag Tent

A3. All-Electric Home—A Case Study: Learn about technology, assumptions, data, plans, people, money, the sun, and clouds as Gimme Shelter Construction shares a story of a home that maximizes its energy efficiency in the modern site-generated electrical market. John Brown and Mark Klein, Co-Owners, Gimme Shelter Construction. Friday 12:00 p.m. in the Brown Flag Tent

A4. Build a Basement Vermicomposting Bin (Demo): Participate to see for yourself how easy it is to build vermicomposting bins for basement use. Five people will get to leave with bins ready for their homes. There is no extra charge! Don’t miss the previous Basement Vermicomposting in Wisconsin workshop. Michael Sargent, Former Sustainability Committee Chairman at Milwaukee Area Technical College, Vermicomposter. Sunday 10:30 a.m. in the Green Building Demo Tent

A5. Build Your Own Log Furniture from Treetops (Demo): Learn how rustic log furniture is crafted and built in this hands-on-demonstration. Scott Bargender, Owner and Operator, Living In Harmony Art Studio. Friday 2:30 p.m. and Saturday 10:00 a.m. in the Green Building Demo Tent

A6. Building an Affordable Passive House: Take a look into building IA’s most energy efficient home, located in Dubuque, IA. I will give insight into the trials and tribulations of building a small passive house on a budget. Shane Hoepner, NABCEP PV Installation Professional, PHIUS Consultant, Owner, Hoepner Green Power. Saturday 3:30 p.m. in the Brown Flag Tent

A7. Building an Earthship-Inspired Greenhouse: In this workshop we will discuss the basic concepts behind our passive solar-geothermal greenhouse, how we built it, the results we’ve seen so far, and our plans for future improvement. Steve and Ali Swan, Permaculture Design Certificate. Sunday 10:30 a.m. in the Black Flag Tent

A8. Building with Earthbags: For a self-builder, Earthbag Construction is a relatively easy way to build walls, arches, and roofs. With barbed wire, bale of bags, and a shovel, one can build a shelter. Don’t miss the following Building with Earthbags Demo. Daniel Becker, Architect, AIA, NCARB, LEED. Saturday 10:00 a.m. in the Brown Flag Tent

A9. Building with Earthbags (Demo): See Earthbag Construction in action and get hands-on experience utilizing polypropylene tube bags, barbed wire, and a sand-clay bag filler to build a small wall. Don’t miss the prior Building with Earthbags workshop. Daniel Becker, Architect, AIA, NCARB, LEED. Saturday 11:00 a.m. in the Green Building Demo Tent

A10. Building with Wattle and Daub: Learn the history, uses, and techniques of this natural building practice. Don’t miss the following Building with Wattle and Daub Demo. Daniel Becker, Architect, AIA, NCARB, LEED. Saturday 2:30 p.m. in the Brown Flag Tent

A11. Building with Wattle and Daub (Demo): Weave wattle, mix daub, and apply to create your own wattle and daub wall in this hands-on demonstration. Don’t miss the prior Building with Wattle and Daub workshop. Daniel Becker, Architect, AIA, NCARB, LEED. Saturday 3:30 p.m. in the Green Building Demo Tent

A12. Chainsaw Sculpting Basics (Demo): Introduction to chainsaw sculpting. Learn how to choose a log, drying, safety tips, how to use a chainsaw to carve your first piece of art out of a log, and painting/finishing techniques. Scott Bargender, Owner and Operator, Living In Harmony Art Studio. Saturday 2:30 p.m. in the Green Building Demo Tent

A13. Cob and Pizza Oven (Demo): See an earthen pizza oven fired up and learn how to cook from a wood-fired oven. Learn pizza oven construction basics for cob, earth blocks, earth mortar, and earth plaster. Mark Morgan, MREA Instructor, Bear Paw Design and Construction. Saturday 12:00 p.m. and Sunday 2:00 p.m. at the Pizza Oven near the Green Building Area

A14. Considering Trees in Development Activities: This session covers tree preservation, design techniques for construction, and site planning. Topics include tree survival, benefits, costs, site analysis, and green building rating systems. Andrew Lueck, President and Consulting Arborist (LEED AP ND, BCMA, RCA), Planned Forest Solutions, LLC. Saturday 5:30 p.m. in the Brown Flag Tent

A15. Cordwood and Cob (Demo): Cordwood and cob a match made in green building heaven. Come on over to the green building site mix up some mud and learn about cob, cordwood and the wonderful project that it is suited for. Mark Morgan, MREA Instructor, Bear Paw Design and Construction. Friday 3:30 p.m. at the Green Building Demo Tent

A16. Cordwood Book Signing: Richard and Becky Flatau built their mortgage-free cordwood home in 1979 in Merrill, Wisconsin. Since then, they have written books, conducted workshops, and facilitated the last three Cordwood Conferences. They will be signing books in the Brown Flag Tent after their Introduction to Cordwood workshop and have available:
- Cordwood Workshop Video (2017)
- Cordwood Conference Papers 2015

Featured Presenter: Amber Westermann
Owner/Designer, Amber Westerman Building Design
• Cordwood and the Code: A Building Permit Guide
• Cordwood House Plans Richard and Becky Flatau, Directors, Cordwood Construction Resources, LLC. Sunday 11:30 a.m. in the Brown Flag Tent

A17. Design and Build a Tiny House (1.5 hour): With the “tiny house” movement, Ramy (builder and licensed contractor in MN) will show you simple methods to build your own house. We will include plumbing, heating, and basic electric design. Ramy Selim, Executive Director, Sunny Day Earth Solutions. Sunday 9:30 a.m. in the Yellow Flag Tent

A18. Documentary Screening: How to Build a Masonry Heater: Learn about the overview of heating a home with a masonry heater and how to build a masonry heater from the ground up. The documentary will discuss how a masonry heater works and how one is built. The Documentary will also cover some of the available options from ovens to heated benches, and even finishing options. Q&A and DVD signing to follow the documentary screening. Run time 54 minutes. Eric Moshier, President, Solid Rock Masonry and Ramy Selim, Executive Director, Sunny Day Earth Solutions. Saturday 7:00 p.m. in the Brown Flag Tent

A19. Earthen Plaster: Workshop covers earthen plaster which is used as a finishing smooth layer for natural building systems. Don’t miss the following Earthen Plaster Demo. Daniel Becker, Architect, AIA, NCARB, LEED. Sunday 2:00 p.m. in the Brown Flag Tent

A20. Earthen Plaster (Demo): In this hands-on earthen plaster demonstration, be involved in all activities including preparing and applying the plaster, finishing the plaster, and creating bas-relief. Don’t miss the prior Earthen Plaster workshop. Daniel Becker, Architect, AIA, NCARB, LEED. Sunday 3:00 p.m. in the Green Building Demo Tent

A21. Efficient Domestic Hot Water: Domestic hot water plumbing is easy: trunk, line, and branches. But is it energy efficient? No. Learn about hot water distribution systems that are water, material, and energy efficient. Marcus de la fleur, Principal, Dip. Hort. Kew, ASLA, PLA, de la fleur LLC. Saturday 12:00 p.m. in the Brown Flag Tent

A22. Energy Efficient Construction: Learn about what creates comfortable, sustainable, and energy efficient buildings for the northern climate zone. John Brown and Mark Klein, Co-Owners, Gimme Shelter Construction. Saturday 11:00 a.m. in the Brown Flag Tent

A23. Extreme Downsizing: Nine years ago I sold my home and on a whim bought 40 wooded acres. Now broke, I had to take my personal challenge to live “one step above camping” seriously. See how I did it, and share your story. Amber Westerman, Owner/Designer, Amber Westerman Building Design. Sunday 12:00 p.m. in the Yellow Flag Tent

A24. Heating Your Home with a Masonry Mass Stove: Learn about the overview of heating a home with a masonry heater. We will discuss different types of masonry heating systems from DIY kits to professionally built custom heaters, as well as available options from heated benches, cooking, baking, heating hot water and floors, and even finishing options. Eric Moshier, President, Solid Rock Masonry. Saturday 5:30 p.m. in the White Flag Tent

A25. High Performance Wall Systems: A builder’s overview of the wall systems they have constructed, from upgraded standard framed construction, to Passive House qualified, to the addition of thermal mass in new and existing building. Dan Johnson, Building Contractor, Driftless HomeWrights and David Romary, Business Partner, Driftless HomeWrights. Friday 10:30 a.m. in the Brown Flag Tent

A26. Introduction to Cordwood Construction: Cordwood construction is a home building technique that uses natural materials and encourages plant-friendly choices. Outstanding visual examples of best practice homes/cottages/cabins will reveal the latest successful builds. Richard and Becky will be available for a book signing following this workshop in the Brown Flag Tent and don’t miss the following Introduction to Cordwood Construction (Demo). Richard and Becky Flatau, Directors, Cordwood Construction Resources, LLC. Sunday 10:30 a.m. in the Brown Flag Tent

A27. Introduction to Cordwood Construction (Demo): Observe building a traditional cordwood wall out of cedar. This will be a hands-on demonstration by cordwood builders Richard and Becky Flatau. Don’t miss the workshop Introduction to Cordwood Construction and book signing at the Brown Flag Tent before this demo. Richard and Becky Flatau, Directors, Cordwood Construction Resources, LLC. Sunday 12:00 p.m. in the Green Building Demo Tent

A28. Make Your Own Paints and Finishes—Part One: Come watch and work with Ramy to learn the reality of store bought “ECO” paints. See how fun, easy, durable, and truly non-toxic your own paint is! Don’t
miss the workshop entitled “Make Your Own Non-Toxic Paints and Finishes: Part Two (Demo).” Ramy Selim, Executive Director and Nick Vanderloop, Sunny Day Earth Solutions. Saturday 4:30 p.m. in the Green Building Demo Tent ●●

A29. Make Your Own Paints and Finishes—Part Two (Demo): This will be a hands-on demonstration of making your own non-toxic paint. All participants will work with the artist, Nick, to make a collaborative piece which will be donated to the Silent Auction. Ramy Selim, Executive Director and Nick Vanderloop, Sunny Day Earth Solutions. Saturday 5:30 p.m. in the Green Building Demo Tent ●●

A30. Masonry Heater History and Design: Receive a brief history lesson about the theory of heater design, modern applications, and design strategies. Mark Klein, Co-Owner, Gimme Shelter Construction. Friday 9:30 a.m. in the Brown Flag Tent ●●

A31. Modern Building of Straw-Clay House Walls: Straw-clay is an ancient building material modernized by machine-mixing. Materials are compacted into an advanced framed stud wall to produce healthy insulating qualities for house walls. Jim Hutchison, Farmer/Builder, strawclay.org. Sunday 12:00 p.m. in the Brown Flag Tent ●●●

A32. Non-Chemical Stripping, History and Solutions: Learn about the history of paint stripping, its challenges and pitfalls, and how people have attempted to subvert them. Catch a demonstration of our proposed solution: the Light Wave Stripper. Max Wallace, Project Engineer/Estimator Restoration Works Inc., BA Knox College Political Science/Economics, Restoration Works Inc. Saturday 11:00 a.m. in the Red Flag Tent ●●

A33. Paper-crete—From Art to Architecture (Demo): Join in a discussion of the endless versatility of paper-crete. Whether you want to make a playful sculpture, soft buttery plaster, or evolve into building paper blocks to construct a super insulated home, paper-crete is a revolutionary material. Faith will share examples, photos of sustainable material options, the science, and her and her husband’s diverse experiences playing with this building material. We will also talk about the dying art of plaster-lime vs clay. Faith Anacker, Holistic Health Educator, Fizzeology Foods. Friday 10:30 a.m. in the Forest Stage ●●

A34. Passive House Institute US (PHIUS)+ Rating Process—Preventing Disaster: The value and process of the third party evaluation that takes place during the construction and testing of a residential structure while seeking the certification as a Passive House USA. Juanita Ellias, Owner, Rivercity Woodworking, LLC. Saturday 4:30 p.m. in the Brown Flag Tent ●●

A35. Straw Bale Construction in the Midwest: Learn the history of straw bale construction and discuss the experience of building with straw and other sustainable practices in the Midwest. Don’t miss the previous Straw Bale Construction in the Midwest (Demos) Friday at 9:30 a.m. and 12:00 p.m. in the Brown Flag Tent ●●●

A36. Straw Bale Construction in the Midwest (Demo): Learn about the construction of a straw bale wall and visit over the course of the weekend to watch it grow. Don’t miss the following Straw Bale Construction in the Midwest workshop Sunday 9:30 a.m. in the Brown Flag Tent. Mark Morgan, MREA Instructor, Bear Paw Design and Construction. Friday 9:30 a.m. and Friday 12:00 p.m. in the Green Building Demo Tent ●●●

A37. Tie Sustainability and Art into a Remodel Project: Ramy and Kat will go through steps of a “standard” remodel and how to tie both sustainable practices and art into them! They will cover concepts from selecting 2x4’s to boiler selection, to walls and counters. Ramy Selim, Executive Director and Kat Lacroix, Assistant Art Director, Sunny Day Earth Solutions. Sunday 3:00 p.m. in the Brown Flag Tent ●●●

A38. Views of Building Green from the Architect and Owners: Hear collaborative perspectives from the designers and owners of Underhill House that includes straw bale, sod roof, timber frame, and passive solar. Della Hansmann, Architect; Dr. Doug Hansmann, Biologist and Science Writer; Denise Thornton, Science Writer and Environmental Blogger. Friday 5:30 p.m. in the Brown Flag Tent ●●●

A39. Working with Urban and Reclaimed Wood Product: This workshop will cover the basics of how to source out, select, and use reclaimed wood flooring as well as urban wood for those interested in utilizing these types of resources. Erich Ebert, Wood Floor Specialist, Alpine Wood Floors. Friday 4:30 p.m. in the Brown Flag Tent ●●●

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