

SOLARFEST 2018 WORKSHOPS



**RENEWABLE ENERGY
& CONSERVATION**



**GREEN
BUILDINGS**



**INNOVATION, TECH
& TRANSPORTATION**



**MUSIC
& ARTS**



**PUBLIC POLICY
& ACTIVISM**



**SUSTAINABLE
LIVING & FOOD**

SUNDAY AUGUST 19TH

 **Introduction to Solar** A basic introduction to solar electricity. Workshop would cover the differences between grid-tied, off-grid, and grid-tied battery backup, as well as how to add battery backup to an existing grid-tied only solar system.
Amy Beaudet; 9 - 9:50 AM, Mezzanine West

 **EV Group Discussion** A panel of EV drivers will discuss their vehicle and tell stories of driving EVs.
Kevin Bailey, others TBD; 9 - 10:20 AM, Mezzanine East

 **Carbon Farming: Regenerative Agriculture for Climate Stabilization** Explore the role of agriculture in carbon sequestration - a vital priority alongside greenhouse gas emissions reduction. We will discuss the global field of carbon farming including crops, research, economics, carbon markets, and other forms of public and private sector support for on-farm sequestration. We will focus in particular on carbon farming applications and opportunities in Vermont and the Northeast US, and how farmers and service providers are working to overcome obstacles to the adoption of carbon farming practices.
Connor Stedman; 9 - 10:20 AM, Slopeside Clubroom

 **Deep-Energy Retrofits: Whole-System Homes for Young Professionals** Alex Beck and Eli Gould executed a deep-energy retrofit on an 1890's Victorian in Downtown Brattleboro. Completely fossil-free with both solar and thermal storage systems and innovative applications of air-to-water heat pump technology, each green feature relies on a holistic, system-wide approach to achieving near-net-zero energy status.
Alex Beck & Candace Pearson; 9 - 10:20 AM, Lower-Level Lounge

 **Designing an Off-grid Solar System** We step you through all of the components needed for a safe, code-compliant off-grid solar system. We also walk you through determining how big of a system you need and help determine the correct equipment for your system.
Amy Beaudet; 10 - 11:20 AM, Mezzanine West

  **Electric Vehicle Policy in the Northeast** Learn about the work that Plug In America is doing in the Northeast on transportation electrification, consumer protection, and vehicle-grid integration.
Pete O'Connor; 10 - 11:20, Grizzley's

 **Storage Round Table Discussion** A panel of manufacturers, dealers, installers & customers discuss the challenges and opportunities of storage.
Bill Laberge, others TBD; 10:30 - 11:20 AM, Mezzanine East

 **Investing for Impact, Including Clean Energy: The Benefits of Socially Responsible Investing** This presentation will provide a detailed introduction to investing with your values -- with competitive returns. You'll learn the professional methods to economically divest from fossil fuels and other objectionable industries and reinvest for social impact. Ways to create screened portfolios on your own or using socially responsible Advisors will be covered. Latest trends in socially responsible/impact investing will also be included.
Todd Walker; 10:30 - 11:20 AM, Northface Hall

 **Should I do it now or should I wait?** This workshop will cover the historical growth of solar, and "breakthroughs" that were supposed to or have made solar less expensive, and the current state of the products and a view into the future. It will cover the past, present and future economics of solar power and ancillary technologies that will propel solar to be the most abundant energy source. Also, will be a discussion about the building integrated solar that is available and some technologies that were great but not economically viable. Some case histories will be covered showing why waiting may not be the right choice.
John Blittersdorf; 10:30 - 11:20 AM, Slopeside Clubroom

  **Movie: Crash Course** Directed & Produced by Chris Martenson 10:30 - 11:30 AM. Lower-Level Lounge

 **Circus Arts** Juggling and circus toys for people of all ages to learn, play, and connect with each other. I will give a demonstration of all the props at the beginning, and help people throughout the workshop, guiding and suggesting individual and group tricks.
Jeremy Warren; 12 - 1:20 PM, Mezzanine East

SUNDAY AUGUST 19TH

 **My NetZero Energy Home:** *What worked and what didn't work 10 years later* How I designed my NetZero Energy home that derives all its energy from the sun and wind for heating, cooling, electric vehicle driving and all other electrical services in my 100% electric home. After 10 years of intensive energy monitoring, I can share some insights about what worked and what didn't work. Prof. Mel Tyree; 12:00 – 1:20 PM, Mezzanine West

  **Small Wind Technology** This presentation is a description and history of small wind turbines and the renewable energy programs in Vermont. We will discuss how a small wind turbine works and what the advantages are. Also, we will talk about what makes a good wind site and how to install a small wind turbine. There will be more discussion concerning the "how and why" of small wind turbine performance, low sound, shadow flicker, and visual impact. We will discuss the procedures to get a CPG permit, tax rebates, cash grants, and financing. Jason Day; 12:00 – 1:20 PM, Northface Hall

 **Melted Vinyl Siding, Solar Fires, & Solar Glare from Low-E Glass Windows** A forensic engineering evaluation of the damage to buildings and structures caused by Low-E glass windows as well as the risks of concentrated reflective sunlight glare to public safety. Attendees will benefit by providing their own (fully charged) laptop computer (with WIFI) during the presentation. Curt Michael Freedman, PE.; 12:00 1:20 PM, Slopeside Clubroom

 **What Kind of Changemaker are You?** Wondering how to use your skills, ideas, instincts, and energy to address the climate crisis? What can you do to make an impact? This workshop is a chance to explore these questions and support each other as we each find our own answers. There is a complex social ecology of movement building; this workshop provides a framework to help us each think about how we fit into that larger movement ecology, where our individual strengths and passions can have the biggest impact and how, even when we disagree, we can continue to work together. Laura Simon; 12 – 1:20 PM, Grizzley's

  **A SolarFest Village-Creating Homegrown Intentional Communities** Introducing and exploring the benefits of simply sharing: creating safe, secure living arrangements that honor the Earth is perhaps the most vital work we all could be doing. Live your values! Dave Bonta; 12 – 12:50 PM, Lower-Level Lounge

  **Standing in Balance** An Earth connecting Masterclass/Workshop on standing balancing poses. How to find balance in the standing poses and cultivate it - experiencing the calm, focus and power in a balancing body. Alternatives and variation of asanas for different abilities will be given. Balancing vinyasa practice and holds. Examples of possible poses; stargazer, trikonasana, half moon, tree, bird of paradise. Parvati Lina Hanson, RYT E-500; 12:15 – 1:30 PM, Summit Platform **NOTE: Rain Location** 2:00 PM in Grizzley's

  **Driving an Electric Car 2,600 Miles** A complete rundown on how an electric car drives and charges including battery capacities, range, performance, charging stations, etc. John Blittersdorf; 2 - 2:50 PM, Mezzanine East

  **Plan B! What is your plan when the power goes out?** What is your plan when you lose power? Can you recharge your phone? Can you run your heat? Your Fridge? We will show you a variety of options from communications backup to running your essentials like your heat and fridge, to running your whole house. Bill Laberge; 2 - 2:50 PM, Mezzanine West

  **Hempcrete - The Future of Organic Housing** Hempcrete is a carbon negative building material made from industrial hemp and a lime-based binder. It is mold, rot, fire and pest resistant. Although non-structural, hempcrete has been around for hundreds of years and is on the verge of being rediscovered in the U.S. Bob Escher, AIA & Alex Escher; 2 - 2:50 PM, Northface Hall

 **Planting for Pollinators in Solar Fields and Beyond** This workshop will describe the reasons and strategy for planting to support pollinators in solar fields but also in back yards school yards and roadsides. Mike Kiernan & Tawnya Kiernan; 2 - 2:50 PM, Slopeside Clubroom

 **Nutrition from the Ground Up** Understand the fundamentals of nutrition and health: management of blood sugars, energy levels and hunger with focus on self-care, environment & sustainability. Get the tools you need to get started with a sustainable meal plan that fits their lifestyle and schedule. We are bombarded with food choices on a daily basis. Managing your meals your meal can seem like a full-time job, however it doesn't have to. This workshop will also provide strategic skills to organize, create and customize your meals throughout the week to support balance energy level and how to budget healthier foods into your shopping lists. Nicole Cormier, RD, LDN; 2 -2:50 PM, Lower-Level Lounge