

SolarFest Workshop Presentations – Alphabetical by Speaker

Amy Beaudet	amy@altestore.com	altE Store	www.altestore.com
Amy Beaudet, a.k.a. the Solar Queen, has been in the solar industry at the altE Store since 2007. She's been a sales rep, an instructor, and an all-around solar evangelist, sharing her passion for solar around the world.			
Off-grid Solar Design		Museum South; 7/16 @ 3:30 PM for 80 Min.	
We'll show you the steps needed to determine what size off grid solar system you need, and how to determine the size of the equipment needed including the solar panels, charge controller, battery bank, inverter, and more. This is the perfect workshop for you if you are thinking about building your own DIY solar system.			
Introduction to Solar Electric Systems		Museum South; 7/16 @ 9:00 AM for 50 min.	
This workshop will cover the basics of solar electricity. We will discuss the capabilities and pros and cons of different types of solar systems, including grid tie, off grid, and hybrid grid tie with battery backup. We'll also explain the components needed for each of these types. It is a great introduction for people who are trying to understand what solar can do for them.			
Alan P. Benoit, AIA	Alan@Sustainable DesignofVT.com	Sustainable Design	www.sustainabledesignofvt.com
Alan's education in architecture, engineering and horticulture combined with 16 years of design experience plus 14 years of architectural experience give him a unique perspective on the integration of sustainability at all levels. In 2012 he became a Certified Passive House Consultant and was given the Governor's Award for Environmental Excellence. His hands-on experience includes designing and building structures from the ground up using recycled materials, reclaimed timbers and renewable resources.			
Architecture to the Rescue!		Studio North; 7/16 @ 3:00 PM for 50 Min.	
If you are building a new home, putting on an addition or renovating an old house; you only have one chance to get it right. Serious thought and critical decisions need to be made to avoid rotting walls, high utility bills, and unwelcoming spaces. Join local architect, Alan Benoit, for an engaging workshop filled with illumination, information, and insulation to find out how Architecture can save the day!			
John Blittersdorf	jblittersdorf@robstubbinsolar.com	Rob Stubbins Solar (formerly CV Solar)	robstubbinsolar.com
John has been a SolarFest Trustee and volunteer for many years. As head of the power committee, he has been responsible for coordinating the installation of Solar power sources needed for the festival. With 20 years' experience installing Solar and wind systems as owner of Central Vermont Solar & Wind, and 36 years living off-grid with solar, he has a broad knowledge of how solar works and will entertain any and all questions during the tour.			
Site Power Tour		Outdoors 2; 7/15 & 7/16 @ 2:00 PM for 80 min.	
A walking tour around the SVAC campus viewing all the solar power producing systems as well as static displays.			
Small Wind for Residential Applications		Museum South; 7/16 @ 11:00 AM for 50 min.	
Learn about small wind turbine designs, real life performance, reliability and cost. Grid Tied (net metering) and Off Grid applications. Also covered will be siting criteria, installation methods and maintenance.			
John Brooks	rendezvousroundpond@outlook.com	Rendezvous Roundpond	
John Brooks has studied yurts for the last thirty years and has taught yurt building programs throughout New England. He is involved in a variety non-profit organizations teaching responsible stewardship of the Earth, the effects of industrial pollution in our waters and outreach programs.			
Sustainable, Low-impact Living in Yurts		Studio North; 7/16 @ 1:00 PM for 50 min	
Learn why yurts (Gers) offer a practical, low impact living/ business alternative to what we have learned to understand structures as we know them today. Origins of yurts are 3,800 years B.C. and have incredible structural integrity while having virtually no footprint on the Earth. Applications, features, residential/commercial uses, origins, features, knowing who to choose for commercial suppliers and what to ask, building your own yurt, zoning and infrastructure considerations.			

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Taborri Bruhl		taborrib@yahoo.com		www.sustainableus.org			
Taborri Bruhl lives in rural New Haven, Vermont, with his wife, three children, and two dogs in a net-zero house powered by solar and wind. Taborri is a former Marine Corps officer, and holds a bachelor's degree in history and journalism from Texas A&M University and a master's degree in history from California State University. He currently teaches history, economics, and government at the high school level, and is on the board of directors for the Acorn Renewable Energy Co-op in Addison County, VT.							
Solving the World's Sustainability Problems				Museum North; 7/16 @ 3:00 PM for 50 min			
The world faces a huge number of environmental problems—climate change, deforestation, habitat loss, and pollution, just to name a few. The good news is that the technology already exists, today, for many of these problems to be solved. Join Taborri as he outlines what future systems and lifestyles might look like and how they might function, and how we will be able to transition from where we are today to where we will need to be tomorrow. His presentation will include discussion of how basic economic principles inform our understanding of future economic systems, as well as video clips of places where some of these technologies and ideas have already been put into practice.							
Enrique Bueno		ebueno@eplusbuildings.com		E+ Buildings		www.eplusbuildings.com	
Enrique Bueno is Senior Engineer with E+ Buildings. He has 45 years of experience in Industrial Processes and 5 years as a Certified Passive House Energy Consultant. His career spans from structural steel to cement manufacturing, experience now applied to high energy efficient buildings following the Passive House Standard.							
Passive House Multi-Family Complex				Museum North; 7/15 @ 2:00 PM for 50 min.			
Implementing the Passive House Building Standard to minimize the energy intensity in buildings							
Peter & Deb Burke		tdgarden@aol.com		The Daily Gardener		thedailygardener.com	
Peter Burke lives with his family in Calais, Vermont. He works in the granite industry in Barre, Vermont, and has gardened for 40 years for fun. In 1981 he started his first Square Foot Garden and in 2005 developed the basic concepts for Year-Round Indoor Salad Gardening detailed on his website www.thedailygardener.com . His book Year Round Indoor Salad Gardening: How to Grow Nutrient-Dense, Soil-Sprouted Greens in Less Than 10 Days. The Low-Tech, No Grow Lights Approach to Abundant Harvest was published September 2015 by Chelsea Green Publishers.							
Year-Round Indoor Salad Gardening				Museum North; 7/16 @ 4:00 PM 50 min.			
This workshop will focus on growing a steady supply of fresh greens with only a cupboard and a windowsill. Ready to harvest in just 7 to 10 days, grow greens that are both good for fresh salads and to cook in a stir fry! Whether it is winter and you are frozen out of the garden, or you are living in an apartment, there is no reason to not to have a garden. Peter Burke will show you how to grow the bulk of your salad greens indoors, about 12-14 ounces a day! Great for you locavores out there, there is nothing more local than your own windowsill. The workshop will outline general techniques for many varieties of greens. Based on the book Year-Round Indoor Salad Gardening by Peter Burke. Published by Chelsea Green Publishers.							
Garrison Buxton		garrison@adhocart.org		Ad Hoc Art		adhocart.org	
Nomadic for many years, Garrison now calls the green mountains of Vermont home, where he and his wife run Ad Hoc Art {AHA}, a community space, public art gallery, social think tank, and event production organization as well as Peripheral Media Projects {PMP}, a creative incubator and design studio using art direction, print, and collaboration to produce socially conscious, community-enhancing, and life-changing media. Born in Brooklyn, NY, Ad Hoc Art and Peripheral Media Projects were seminal in birthing NYC's vibrant arts community in Bushwick. AHA highlights the vast art areas of street, visionary, pop surrealism, lowbrow, illustration, comic book, tattoo, and printmaking, as well as the larger and extensive history of underground art, activism, and graffiti. It is a vehicle for artists passionate, committed to their craft, and challenging the boundaries of a Fine Art isolated from society at large and dedicated to showing work often marginalized by the more conventional art scene. AHA promotes talented creatives by curating and producing exhibitions and events across the US and internationally, which have been featured in the BBC, The NYTimes, TimeOutNY, The Village Voice, San Francisco Magazine, The Washington Post, NPR, Juxtapoz, L Magazine, Brooklyn Magazine, The Brooklyn Paper, & Hi-Fructose. The Buxton's have executed public art projects across the US and around the globe, including Mexico, Peru, the UK, France, Germany, Spain, and The Netherlands. At their homestead, the Buxton's focus on promoting creativity, design, sustainability, earth-friendly building techniques, permaculture, and social history. The Buxtons' modus operandi: Fear Less, Love More; Make things; With many arms our reach is wide; Forever we are one.							
Art, Activism, the Environment & Social Change				Yester House; 7/16 @ 10:00 AM for 50 min.			
In this workshop, we will discuss the role art plays in cultivating, fostering, and continuing social movements and change. Art has a powerful history of being at the vanguard of movements and imagery is an important factor in generating memes. In addition to covering various methods, will go over how to make stencils, one of the oldest art forms, and discuss how they have been used across continents and over time to disseminate information.							

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Forest Byrd	Forest.byrd@gmail.com	Storynight
<p>Forest Byrd is your host for this event. He has been running a story show in downtown Bennington for last year. An artist and a solar installer, his main goal is seeing the community come together. Stories help unite us and complete the final thread. Are energy future is our future, let's come tell of our falls and of our success as we move forward into this unknown plateau.</p>		
Solar Stories Workshop		Arkell; 7/16 @ 2:10 PM for 50 min
<p>Five minutes stories no notes no props about your experience with the sun... good or bad.</p>		
Elizabeth Calabrese	calabresearchitects@gmail.com	Calabrese Architects, Inc. www.calabresearchitects.com
<p>Elizabeth F. Calabrese is a licensed architect, LEED-AP and has been the principal architect for Calabrese Architects for over 20 years. She focuses on creating built environments that connect us to nature to promote human and environmental health and well-being. Elizabeth is a biophilic design consultant and has been teaching biophilic and ecological design for the past several years. Elizabeth co-authored a publication with Stephen Kellert titled, The Practice of Biophilic Design</p>		
Biophilic Design Interactive Workshop		Studio North; 7/16 @ 10:30 AM for 80 min.
<p>This interactive session focuses on how to foster human and environmental health and wellbeing by creating positive built environments for occupants using knowledge of our biological and evolutionary connection to the natural world also known as biophilic design. Biophilic interventions will be shown step by step through the analysis and design process. Participants will learn how biophilic principles, experiences and attributes can be woven together and utilized effectively in the design process to create built environments that improve cognitive function and creativity, reduce both stress hormones and blood pressure, increase healing and instill a general feeling of peace and happiness. Part of the workshop will be to analyze the photos of positive and negative spaces submitted by the attendees and discuss how biophilic interventions can potentially improve the negative spaces.</p>		
Biophilia and Biophilic Design		Studio North; 7/16 @ 4:00 PM for 50 min
<p>The theory of biophilia hypothesizes humans developed a biological tendency to affiliate with nature over the long course of human evolution in adaptive response to natural not artificial forces. Rather than being vestigial, recent scientific study indicates biophilia continues to be instrumental in people's health, productivity and wellbeing. Yet, the natural habitat of modern people has largely become the built environment where on average we now spend 90% of our time. Biophilic design is how to design good habitat for people as a bio-ecological organism in the modern built environment.</p>		
John Cerveny	jcerveny@ny-best.org	NY-BEST www.ny-best.org
<p>John Cerveny is the Director of Resource Development for NY-BEST where he leads efforts to make connections between and among members, funding sources and the community at large. Immediately prior to his work with NY-BEST, he was founder and President of New Energy Resources in Schenectady and Vice President at TechCity Properties in Kingston, NY. Cerveny has held senior leadership positions at several clean tech companies' including Plug Power, GE MicroGen, MTI MicroFuel Cells and Lilliputian Systems' where he led efforts that resulted in creation of hundreds of jobs, modification of regulations to pave the way for new products and funded programs valued at over \$100 million. He was a founder of the US Fuel Cell Council and has provided merit review services for the US Department of Energy. Cerveny serves as a NYSERDA Entrepreneur in Residence and has mentored numerous companies through the CleanTech Open. Cerveny is a Climate Reality Leader and has given Al Gore's presentation on Climate Change to numerous groups. He earned a B.S. in Industrial Engineering at Rensselaer Polytechnic Institute and an MBA from the Lally School of Business at RPI.</p>		
Energy Storage - Technology, Policy and Opportunities		Museum North; 7/16 @ 1:00 PM for 50 min.
<p>Energy storage has become a major topic of conversation at state utility commissions, among renewable energy advocates and even in the popular press. The workshop will provide baseline information on what is happening with battery and storage technologies, market policies and energy markets to drive the enthusiasm around storage.</p>		
Marilyn Chiarello	MindfulMondayVT@gmail.com	Mindful Monday VT (a project of Post Oil Solutions)
<p>Educator, environmentalist, foodie and activist, Marilyn Chiarello is one of the founders of Mindful Monday, a Brattleboro group whose mission is to inspire others to be "Living mindfully to improve our health, the environment and the lives of the beings with whom we share this planet."</p>		
Making Mindful Lifestyle Choices		Studio North; 7/15 @ 4:00 PM for 50 min
<p>Discussion of some of the often overlooked choices that individuals can make to reduce their contribution to greenhouse gases and environmental degradation. We will be screening several clips from the documentary, Cowspiracy, that illustrate the impact of agriculture on land use, water consumption, the oceans, wildlife, and more.</p>		

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Richard Czaplinski	rczaplinski@madriver.com	Veterans For Peace	wmgmvfp.wix.com/vermont
Richard is active in the sustainable living movement both in life and through his writing on living simply and strengthening community. He served in the U.S. Navy from 1964 to 1969 and is a member of the Vermont chapter of Veterans For Peace.			
Environmental Impacts of War and Militarism		Yester House; 7/16 @ 1:00 PM for 50 min.	
Join us for a rich dialogue about the cross-sections of environmental protection, climate change, and peace work. This workshop will address questions such as: How does war affect the environment? How do we, each one of us, foster peace? Can peace between countries be fostered by working to protect the environment? And, can working to protect the environment help foster peace?			
Jason Day	jasonday@starwindturbines.com	Star Wind Turbines, LLC	www.starwindturbines.com
Jason Day is the owner of Star Wind Turbines LLC which is a manufacturer of small to medium sized turbines (5kW to 50kW). Mr. Day, BSEE, is the principal designer of the Star Wind Turbines and has developed new technologies that make a wind turbines more efficient, feasible, and quiet. Prior engineering activities includes the development of propulsion system and propellers for aircraft, and the production of high reliability components for satellites. He has been participating in the Net Metering Workgroup and the Standard Offer Workgroup presented by the Public Service Board in Montpelier. He would like to share his experienced in pursuing Certificates of Public Good, interconnection agreements, and financing for small wind turbines. He has studied net metering and Feed-in-tariff programs around the country and the world and will explain how Vermont is the leading way with advanced energy programs.			
Energy Programs in Vermont, the US & the World		Museum North; 7/16 @ 10:00 AM for 50 min.	
An outline of the energy programs, grants, and incentives available in Vermont, the USA, and world. What is distributive energy and why it is good for the community. Net-metering program Vermont (The new program will take effect on Jan 1, 2017) Group Metering (Vermonters can form a group and share an energy system) The Standard Offer program (pays cash for clean electricity) The Dept. of Agriculture is offering a 25% grant toward renewable projects. Tax rebates are available from the federal government for up to 30% cost. Financing is available from VEDA and other Banks. How do you get a Certificate of Public Good? Other programs in the USA and the World.			
The Technology of Small Wind Turbines		Museum South; 7/16 @ 2:00 PM for 80 min.	
Addressing how a small wind turbine makes energy, how to make cash and electricity, what differences exist between small wind technology and solar PV, how to site a small wind turbine, information on using wind charts and anemometer loan programs, how to navigate the CPG (Certificate of Public Good) process, information about the rules and procedures in getting an interconnection agreement with the local utility, how to install and maintain a wind turbine, and information on new low-noise technologies, zero- impact on bat and bird collisions, and zero- adverse visual impacts.			
Simon Dennis	simon.p.dennis@gmail.com	Center for Transformational Practice	transformationalpractice.org
Simon started and ran, for over 10 years, a volunteer reuse and repair organization in White River Junction VT called COVER. Simon then went on to start an intentional permaculture based community along the Connecticut River called The Center for Transformational Practice or CTP. The connection between spiritual growth and sustainable practices is a strong one for the members at CTP. The community he founded is now thriving as a designated nonprofit dedicated to disseminating information on permaculture, sustainable technology and to creating an environment helpful for individual spiritual growth. He has dedicated years to finding sustainable solutions for lowering ecological footprints and fostering community growth.			
Introduction to Rocket Mass Heaters		Museum South; 7/16 @ 10:00 AM for 50 min.	
A one-hour presentation on the theory and benefits of Rocket Mass Heaters. Rocket Mass Heaters are an exciting innovation in the realm of sustainability. First developed by fire science engineers to help reduce developing nation's need for firewood. Since then it has been embraced by the permaculture community as a premier method for low cost, high efficiency space heating. These stoves are largely smokeless and store much of the woods heat all night. Families have realized up to a 90% reduction in wood use.			

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Stella Ehrich	sehrich@comcast.net	Stella Ehrich Paintings	www.stellaehrich.com
<p>The most profound influence on Stella's work came from the sixteen years that she lived and painted in Italy. During that time she studied for seven years in Florence in the studio of Signorina Nerina Simi, where she received classical realist instruction based on French academic practices of the late 19th century. Ms. Ehrich holds a B.F.A. in painting from the Memphis Academy of Art and an M.F.A. in painting from Bennington College. She has taught as an adjunct professor at Williams College, Bennington College, the Lyme Academy of Fine Arts, and the Community College of Vermont. She teaches summer and fall workshops for landscape painters in North Bennington, Vermont, and paints a variety of subjects including still life and portraiture.</p>			
Landscape Painting		Outdoors 2; 7/15 @ 3:00 PM for 50 min.	Outdoors 2; 7/16 @ 10:00 AM for 50 min.
<p>Explore some of the essential elements of classical landscape painting in oils: light and shadow, composition and aerial perspective. Presenter will describe methods of color mixing, how to begin and develop a painting, and give a suggested list of colors and tools for the landscape painter.</p>			
Norm Elkind	semp@vtvsa.org	Vermont Superintendents Association	www.vtvsa.org
<p>Norm is Director of the School Energy Management Program for the Vermont Superintendents Association. In this role he has performed energy assessments at 343 k-12 schools in Vermont. In addition, he has worked to promote the use of renewables at Vermont schools. Norm has several certifications from the Association of Energy Engineers including: Sustainable Development Professional, Energy Manager, Masters Level Energy Auditor and Building Commissioning Professional.</p>			
K-12 School Energy Efficiency, Conservation & Renewables		Yester House; 7/15 @ 2:00 PM for 50 min.	
<p>Explore how schools can save greenhouse gases through efficiency and conservation strategies as well as conversions to renewables. Vermont schools are national leaders in the use of biomass fuels and are rapidly taking advantage of solar opportunities. Current status and future potential will be discussed.</p>			
Caleb Erskine	caleberskine@gmail.com	Living Intent Yurt Company	
Sustainable, Low-impact Living in Yurts		Studio North; 7/16 @ 1:00 PM for 50 min	
<p>Learn why yurts (Gers) offer a practical, low impact living/ business alternative to what we have learned to understand structures as we know them today. Origins of yurts are 3,800 years B.C. and have incredible structural integrity while having virtually no footprint on the Earth. Applications, features, residential/commercial uses, origins, features, knowing who to choose for commercial suppliers and what to ask, building your own yurt, zoning and infrastructure considerations.</p>			
Laurie Fielder	Laurie.Fielder@vsecu.com	VSECU	www.vsecu.com/vgreen
<p>VGreen Program Director, Laurie directs VSECU's statewide VGreen energy savings loan program. Previously, she worked for the weatherization program at the Central Vermont Community Action Council (now Capstone), where she managed statewide weatherization education programs. She also worked for a successful residential solar installer, guiding customers through the solar installation process. In addition to managing the VGreen program, she develops relationships with industry vendors, contractors, and with various non-profit organizations and industry stakeholders to collaborate on ways VSECU can improve access to efficiency and renewable financing options for all Vermonters.</p>			
Going Solar? Local Financing Makes Sense		Museum South; 7/15 @ 3:00 PM for 50 min	
<p>If you've been thinking about going solar, now is the time to make this dream a reality. In the excitement of planning your project and getting, remember to consider how to pay for it. Most people don't have the resources to pay for their project out-of-pocket, or they are confused by the options. There's the cost of the project, leasing options, the tax incentives, and sometimes in-house financing that sounds like a good deal. Learn about the economics of financing and about some state-subsidized loans options, to help make solar a reality for you.</p>			

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Curt Freedman	cmf.freedman@gmail.com	CMF Engineering, Inc.	www.CurtFreedman.com
<p>President, CMF Engineering, Inc. (Est.: 1985) Mr. Freedman is an engineering consultant specializing in forensic engineering, mechanical systems design, and energy conservation. Lehigh University, Bethlehem, PA, Bachelor of Science in Mechanical Engineering (B.S.M.E.), May 1981. Western New England College, Springfield, MA, Master of Science in Engineering Management (M.S.E.M.), February 1987. Tau Beta Pi Engineering honor society. The Tau Beta Pi Association was founded in 1865 to mark integrity and excellence in engineering. Registered Professional Engineer: [CT, MA, MD, ME, NH, NJ, NY, OH, PA, RI, & VT] Certified Energy Manager, Association of Energy Engineers Certified Energy Auditor, Association of Energy Engineers LEED AP - Leadership in Energy & Environmental Design, Accredited Professional [As endorsed by the U. S. Green Building Council (www.USGBC.org)] Adjunct Professor, Western New England College, in Springfield, Massachusetts. Instruct materials science laboratory, energy management, and alternative energy design to Juniors, Seniors, and Graduate Students. In 2006, as faculty advisor for an engineering design contest sponsored by the American Society of Mechanical Engineers (ASME), my two student teams placed first and second in the region Professional Memberships: Past President, Western Mass Section ASME (American Society of Mechanical Engineers); Northeast Sustainable Energy Association (NESEA); The Association of Heating Refrigeration & Air Conditioning Engineers (ASHRAE); Association of Energy Engineers (AEE); The National Academy of Forensic Engineers, Senior Member Mr. Freedman published his solar research at the ASME sponsored National Heat Transfer Conference, in 1984. Mr. Freedman has intervened before several Department of Public Utility Commissions throughout New England to promote fairer and more equitable natural gas and electricity rates.</p>			
Carbon-Dioxide Tracer Gas Testing		Museum South; 7/15 @ 2:00 PM for 50 min.	
Carbon-Dioxide used as a tracer gas can be utilized to calculate the air infiltration rate of any residential, commercial, or industrial structure.			
Gray Water Heat Exchanger for Residential & Commercial Applications		Museum South; 7/15 @ 4:00 PM for 50 min.	
Learn about the construction of an all-copper shell and tube heat exchanger to recover waste heat from showers, commercial dishwashers, and other applications			
Clear Sky Solar Insolation and "Global Cooler"		Museum South; 7/16 @ 1:00 PM for 50 min	
Presentation of ASHRAE Clear Sky equations along with spreadsheet program to evaluation solar insolation on any surface, any orientation, at any location on the planet. Presentation of a homemade thermal solar panel.			
Daniele Gallardo	daniele.gallardo@actasysinc.com	Actasys	www.actasysinc.com
<p>Dr. Gallardo received his Ph.D. in aeronautical engineering from the Rensselaer Polytechnic Institute in 2013, and is currently the cofounder and vice president for business development of Actasys Inc., a startup company based in Watervliet, NY. Dr. Gallardo focused his entire career on renewable energy and aerodynamics, starting with his M.Sc. thesis in MIT on fuel cells. Dr. Gallardo has been featured in several technical, popular and business magazines and is the inventor of several patents related to active flow control and aerodynamics. Since its foundation, Dr. Gallardo has been leading the business development department of Actasys, developing a successful path to market for Actasys revolutionary platform technology.</p>			
Advanced Aerodynamics Concepts in Transportation		Studio South; 7/16 @ 2:00 PM for 50 min.	
A revolutionary system that will change traditional aerodynamics.			
Daniel Gehring	daniel@linesync.com	LineSync Architecture	www.linesync.com
<p>Daniel Gehring joined LineSync Architecture in June of 2014 as a part time architect. Daniel is a Wilmington, Vermont native and is happy to be back in Vermont after completing his MARCH from Judson University in Illinois and practicing architecture in NYC for several years. Since leaving NYC Daniel has been designing and building resilient structures; first through his company OuterGreenLLC and now full time with LineSync Architecture. Daniel lives in an intentional community and spends his free time hiking, snowboarding, woodworking, and raising his son Orin.</p>			
Resilient River Apartment Design		Studio North; 7/16 @ 12:00 PM for 50 min.	
<p>The design of this downtown Wilmington apartment is in response to the destruction of Hurricane Irene. This apartment is located on the bank of the Deerfield River which has flooded in the past and will flood again. Next time the Deerfield floods downtown Wilmington, this apartment will dry out quickly and be able to reopen with only minimal repairs. This presentation will address construction details and design strategies to address increased flooding events due to the change in climate that we are experiencing.</p>			

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Ben Grosscup	ben.grosscup@peoplesmusic.org	People's Music Network	http://peoplesmusic.org/
<p>Ben Grosscup serves as the executive director of People's Music Network. As a performing artist himself, he uses the power of song to amplify and accentuate the ideas and values of the transformative social movements he is part of. His songs make no apology for their biting critique of current events. He plays at rallies, conferences, coffee houses and house concerts, and he is working on his debut CD release.</p>			
Song Swap: Struggles for Freedom and Social Justice		Yester House; 7/15 @ 6:00 PM for 80 min.	
<p>In this participatory song swap, members of People's Music Network (PMN) invite songs that reflect the dreams and struggles of today's frontline freedom and social justice movements. During this workshop, you will also hear a little bit about PMN, an organization that for 40 years has been gathering artists and activists together to sustain traditions of using music for social change. Our next gathering is in Greenfield, MA January 27-29, 2017. Info at www.peoplesmusic.org.</p>			
Walter Gustafson	walter@vpirg.org	Energy Independent Vermont	energyindependentvt.org/vnrc.org
<p>Walter Gustafson is a Field Organizer for the Vermont Public Interest Research Group (VPIRG). A native Vermonter raised in Addison County, Walter began his career as a VPIRG canvasser in 2010 and 2011, after which he was hired to lead a citizen outreach campaign with Environment California where his office succeeded in banning plastic bags in Santa Cruz, CA. Walter returned to Vermont in early 2014, when he was awarded a New Organizing Institute Climate Fellowship working with VPIRG's Campaign to Stop the Fracked Gas Pipeline. He returned to VPIRG's canvass operation as an assistant director in 2014 and lead director in 2015, where he inspired the team about the power of face-to-face organizing and happened to break office records along the way.</p>			
Carbon Pricing & Energy Independence in VT		Studio South; 7/16 @ 9:00 AM for 80 min.	
<p>There are no silver bullets to solve global warming, economic inequality, or accessibility to affordable energy-saving technology. But there is a policy mechanism that can catalyze progress on all of these fronts while smoothly transitioning Vermont away from fossil fuels. Enter, carbon pricing. It's an up-and-coming climate-economy initiative that's being discussed for implementation here in Vermont, even though carbon pricing mechanisms have a long history of use in 40+ other countries. Enter the conversation and learn more about how we can keep energy dollars local, assist the job market, unite Vermonters in the effort to create a clean economy, and increase energy independence for all.</p>			
Larry Hamilton	silverfox@gmavt.ne	Veterans For Peace	wmgmvfp.wix.com/vermont
<p>Larry is a member of Veterans for Peace. Larry was born in Canada, and served in World War II in the British Royal Navy Fleets Air Arm as a pilot. He now is retired, living in Charlotte Vermont where he volunteers with The Vermont Nature Conservancy as a Trustee. Larry is also Tree Warden in his Town and Emeritus Professor of Forest Conservation from Cornell University.</p>			
Environmental Impacts of War and Militarism		Yester House; 7/16 @ 1:00 PM for 50 min.	
<p>Join us for a rich dialogue about the cross-sections of environmental protection, climate change, and peace work. This workshop will address questions such as: How does war affect the environment? How do we, each one of us, foster peace? Can peace between countries be fostered by working to protect the environment? And, can working to protect the environment help foster peace?</p>			
royal hartigan	royaljhartigan@gmail.com	blood drum spirit	www.blooddrumspirit.com
<p>royal hartigan is a percussionist, pianist, and tap dancer who has studied and performed the musics of Asia, Africa, Europe, West Asia, and the Americas as well as African American blues, gospel, funk, hip-hop, and jazz traditions. He travels to Ghana, West Africa, each year to learn and perform traditional drumming and dance, connecting them to the African American jazz tradition. A Fulbright scholar to the Philippines (2006) and Ghana (2014), his works include four books with dvd on African and world music for drumset, three double length cds with his <i>blood drum spirit</i> ensemble, and over forty cds with Fred Ho's ensemble and other artists on the creative music scene. He is completing a film and double cd from his <i>blood drum spirit</i> ensemble's tour of Ghana, West Africa, last year.</p>			
Improvisation as Conversation in Experimental Jazz-based Works		Arkell; 7/15 @ 2:00 PM for 80 min.	
<p>We explore how composers and improvisers can use specific elements, including West African polyrhythms, Indian time cycles, and multiple melodic/harmonic/tonal layers, to interact, to draw on one's voice, and, together, to create a collective whole. The ensemble members invite participants from across the musical spectrum, as well as dancers, painters, sculptors, and poets/spoken word artists, to play and take part, and everyone to join the discussion.</p>			

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Martin Holladay	martin@greenbuildingadvisor.com	Green Building Advisor	www.greenbuildingadvisor.com
Martin Holladay is the senior editor of the Green Building Advisor website. His weekly blog is called, "Musings of an Energy Nerd."			
Reassessing Passive Solar Design Principles		Museum North; 7/15 @ 6:00 PM for 50 min.	
Which passive solar design principles from the 1970s, if any, still make sense today?			
Hannah Huber	hhuber@vnrc.org	Energy Independent Vermont	energyindependentvt.org/vnrc.org
Hannah Huber is the Energy & Climate Community Organizer for the Vermont Natural Resources Council (EIV). She supports communities in understanding the equitable economic value in reducing fossil fuel use. Hannah holds a B.S. from Paul Smith's College with concentrations in biology, environmental science, and chemistry. In addition to climate action, Hannah has experience in solar energy education, invasive species management, and worked in the fungi herbarium at the New York Botanical Garden. Originally from the Midwest, Hannah lives in Montpelier with her leash-trained cat, and is a swing and contra-dancer, semi-professional musician, and mushroom hunter.			
Carbon Pricing & Energy Independence in VT		Studio South; 7/16 @ 9:00 AM for 80 min.	
There are no silver bullets to solve global warming, economic inequality, or accessibility to affordable energy-saving technology. But there is a policy mechanism that can catalyze progress on all of these fronts while smoothly transitioning Vermont away from fossil fuels. Enter, carbon pricing. It's an up-and-coming climate-economy initiative that's being discussed for implementation here in Vermont, even though carbon pricing mechanisms have a long history of use in 40+ other countries. Enter the conversation and learn more about how we can keep energy dollars local, assist the job market, unite Vermonters in the effort to create a clean economy, and increase energy independence for all.			
Jason Kass	jkass@toiletsforpeople.com	Toilets for People	www.toiletsforpeople.com
Jason is founder and president of Toilets for People (TfP), a social business, created in 2012, that designs and manufactures composting toilets and trains NGO partners in the developing world how to install and maintain these toilets. TfP is the intersection of appropriate technology and sleek, attractive design & seeking a higher quality of life for our customers and advancing global development. TfP specializes in serving communities living in flood prone and waterlogged areas where conventional sanitation technologies like pit latrines and flush toilets fail. Jason, an environmental engineer by trade, has 15 years' experience in water, sanitation and environmental cleanup. Jason has been applying his skills to international development since joining Engineers without Borders in 2006. Since then, he has worked on water and sanitation projects in Kenya, Peru, El Salvador, Senegal, Nicaragua and Haiti. Jason received his undergraduate and master's degrees from Tufts University in Environmental Engineering.			
Composting Toilets Made Easy		Studio North; 7/15 @ 6:00 PM for 50 min.	
Have you ever been somewhere where the power went out due to a storm and the flush toilets stopped working? Rising sea levels and increased storm severity & frequency due to climate change are making this a more common reality for many, especially those living in coastal areas. Ever think of having your very own back up toilet?			
David Keefe	dkeefe@veic.org	Vermont Energy Investment Corp	www.veic.org
David Keefe is a life-long Vermonter who has been working for over 30 years to make houses work better. He is regarded as a national expert in residential energy efficiency and as a personable and effective teacher. Dave is a former contractor who now works for the Vermont Energy Investment Corporation, which operates Efficiency Vermont.			
Making Your Home More Efficient		Studio North; 7/16 @ 9:00 AM for 80 min.	
Should you replace your windows? Insulate? Seal some air leaks? Change your heating system? This workshop outlines options for homeowners who want to be more comfortable and save money. What things give you the best bang for the buck? What are the important health and safety considerations? What programs and incentives are available? What are the financing options? Come and get the answers to all of these questions from Vermont's foremost authority on the subject.			
Your Indoor Air		Museum North; 7/16 @ 11:00 AM for 50 min	
There are many misconceptions about air flow in houses, and we're going to try to kill as many as possible. We'll discuss the forces that move air in and out of houses, where the big holes are (not where you'd expect!), and how to control that flow by air sealing. We will also cover humidity, condensation, carbon monoxide, mechanical ventilation, and indoor air quality in general. And we will explain why no house is ever too tight.			

SolarFest Workshop Presentations – Alphabetical by Speaker

Adrienne Kinne	adriennej@hotmail.com	Veterans for Peace	wmgmvfp.wix.com/vermont
Environmental Impacts of War and Militarism		Yester House; 7/16 @ 1:00 PM for 50 min.	
Join us for a rich dialogue about the cross-sections of environmental protection, climate change, and peace work. This workshop will address questions such as: How does war affect the environment? How do we, each one of us, foster peace? Can peace between countries be fostered by working to protect the environment? And, can working to protect the environment help foster peace?			
Erich Kruger	Erich@deconstructionworks.com	Deconstruction Works	Www.deconstructionworks.com
Deconstruction - A Green Alternative to Demolition		Outdoors 1; 7/16 @ 12:00 PM for 50 min.	
Deconstruction, a green alternative to demolition / Using reused materials in your building project			
Bill Laberge	bill@grassrootssolar.com	Grassroots Solar, Inc.	www.GrassrootsSolar.com
Bill Laberge has been volunteering at SolarFest for close to 20 years and, as a result, now has his own solar design and installation company, Grassroots Solar. He has been on both sides of the table in the solar discussion, as a customer and now a service provider, so he has a great feel for what it takes to figure out the intricacies of the process and explain it in an understandable way.			
Demystifying Solar in VT		Museum South; 7/16 @ 12:00 PM for 50 min.	
How does solar work in our area? What happens to my roof? What's the payback? These questions and more will be answered, showing you how solar does work in our area!			
Ace McArleton	ace@newframeworks.com	New Frameworks	www.newframeworks.com
Ace McArleton founded New Frameworks Natural Building LLC in 2006 to offer green remodeling and new construction services blending natural building materials and methods with high-performance design. Ace instructs in the Natural Building Certificate Program at the Yestermorrow Design/Build School, and is a co-author of The Natural Building Companion (Chelsea Green, 2012).			
PreFab Straw Panels: Local, Healthy, Low-Carbon, Affordable, High Performance, Natural		Museum North; 7/15 @ 3:00 PM for 50 min	
Pre-fabricated straw panels are one developing answer to the growing need for resilient and affordable homebuilding options for Vermonters and our neighbors. Ace from New Frameworks Natural Design/Build will discuss their new straw panel offering, along with other straw bale building designs, as an option for those seeking to build passive-house level or other high performance homes with a low-carbon footprint and cradle-to-cradle approach.			
Michael McCoskey	Michael@linesync.com	LineSync Architecture	www.linesync.com
Resilient River Apartment Design		Studio North; 7/16 @ 12:00 PM for 50 min.	
The design of this downtown Wilmington apartment is in response to the destruction of Hurricane Irene. This apartment is located on the bank of the Deerfield River which has flooded in the past and will flood again. Next time the Deerfield floods downtown Wilmington, this apartment will dry out quickly and be able to reopen with only minimal repairs. This presentation will address construction details and design strategies to address increased flooding events due to the change in climate that we are experiencing.			
Jesse McDougall	jesse@studiohill.farm	Studio Hill, LLC	http://studiohill.farm
Jesse and his wife, Cally, own and operate Studio Hill, a regenerative, pasture-based family farm in Shaftsbury, Vermont.			
A Regenerative Farm's Approach to Energy, Carbon, and Soil		Museum North; 7/16 @ 2:00 PM for 50 min	
A detailed look at one farm's obsession with carbon and how this obsession guides energy decisions, farming practices, infrastructure investments, and product development. Topics include: carbon sequestration, oxidation of organic matter, renewable energy, biological vs. chemical decay, soil health, and climate change.			

SolarFest Workshop Presentations – Alphabetical by Speaker

Laura Mistretta	laura@vpirg.org	Energy Independent Vermont	energyindependentvt.org/ vnrc.org
<p>Laura Mistretta is a Field Organizer for the Vermont Public Interest Research Group (VPIRG). Laura graduated from Duke University with a B.A. in Environmental Science and Policy and was involved with a student-led effort to divest Duke's endowment from the top 200 publicly traded fossil fuel companies. Before starting with VPIRG Laura completed a year-long fellowship in grassroots organizing with Green Corps, during which she worked to end the overuse of antibiotics on factory farms, built public support for the designation of Basin and Range National Monument in Nevada and went door to door in New Jersey to close loopholes in the Clean Water Act. As a field organizer, Laura's job is to recruit and mobilize activists across the state to show Vermont's legislature that taking action on climate change is the right thing to do for Vermonters, for the economy and for the environment.</p>			
Carbon Pricing & Energy Independence in VT		Studio South; 7/16 @ 9:00 AM for 80 min.	
<p>There are no silver bullets to solve global warming, economic inequality, or accessibility to affordable energy-saving technology. But there is a policy mechanism that can catalyze progress on all of these fronts while smoothly transitioning Vermont away from fossil fuels. Enter, carbon pricing. It's an up-and-coming climate-economy initiative that's being discussed for implementation here in Vermont, even though carbon pricing mechanisms have a long history of use in 40+ other countries. Enter the conversation and learn more about how we can keep energy dollars local, assist the job market, unite Vermonters in the effort to create a clean economy, and increase energy independence for all.</p>			
Fidel Moreno	fmoreno@cybermesa.com	www.healingwinds.net	www.healingwinds.net
<p>Fidel Moreno is a 28-year award winning filmmaker/Ethnographic Documentary films and also a youth advocate and Community Development Specialist. Fidel has been working with American Indian tribal youth & restorative justice programs for over 30 years! Fidel Moreno is Huichol, ChiChimeca and Mexican American and a ceremonialist working with Veterans, youth and communities who are experiencing PTSD.</p>			
Native American Mindfulness Workshop		Outdoors 1; 7/16 @ 10:00 AM for 50 min	
<p>"Breathe, Feel and Accept!" We will explore sounds of and in nature, i.e. water, wind and fire and drumming to calm, focus and expand awareness of self in relation to environmental issues and other species, human and not. This work shop is about Empowering the Organizer and/or Building Community Leader! We will also be sharing Native American concepts for leadership and community wellness & Development.</p>			
Jeremy Niles	jniles@pika-energy.com	Pika Energy	www.pika-energy.com
<p>Jeremy Niles is a sales and marketing professional for Pika Energy. He helps customers design the right Pika system for their home or business. Jeremy came to Pika in 2013 as an intern from Blackstone Accelerates Growth foundation while earning his BS in Business Administration at the AACSB accredited USM school of business. When he is not working in the office or on site, Jeremy can be found far away on his motorcycle, or on Maine's beautiful shores and waterways chasing fish.</p>			
Solar Plus Storage: The Benefits of Batteries		Outdoors 1; 7/15 @ 4:00 PM for 50 min.	
<p>This workshop will present information on the Pika Energy Island, equipment that makes it simple to add batteries to a home solar array. We'll go into the details of why batteries are a valuable and important addition to homes and businesses with solar PV, and how the system works.</p>			
Pete O'Connor	poconnor@ucsusa.org	Union of Concerned Scientists	www.ucsusa.org
<p>Peter O'Connor joined UCS in May 2015. His research focuses on the integration of solar power and electric vehicles into the electricity system. Before coming to UCS, Dr. O'Connor conducted research on energy and environmental issues for the Global Environment & Technology Foundation in Arlington, VA. Clients included U.S. Environmental Protection Agency, the U.S. Department of Energy, states, companies, and non-governmental organizations. He subsequently conducted research for the World Bank, the National Association of Regulatory Utility Commissioners, and other clients. Dr. O'Connor received a Ph.D. in geography from Boston University. His doctoral dissertation focused on aspects of energy transitions, including statistical economic analysis, historical factors, energy return on investment (EROI), and climatology. He holds an M.S. from Stanford University in geothermal engineering and a B.A. from Harvard University in physics.</p>			
Electric Vehicles & the Grid		Museum North; 7/16 @ 12:00 PM for 50 min.	
<p>How can electric vehicles help the grid accommodate greater levels of variable renewable energy like wind and solar? How far in the future are "smart charging" and "vehicle-to-grid" ideas? Dr. O'Connor has been researching this topic with the Union of Concerned Scientists and will share what he has learned.</p>			

SolarFest Workshop Presentations – Alphabetical by Speaker

Hughes Pack		pack.stemsolar@gmail.com	
<p>Hughes recently retired from 37 years of teaching astronomy and physics. Along with his love of all things in the sky above Hughes has always been infatuated with electricity. About five years ago he became involved with an educational solar electrical energy project; the STEM Solar Lab and is now transitioning to a new career of promoting solar energy education. Hughes has also always loved sunshine, but his recent purchase of and life in a deep-energy retrofit home has been truly inspirational for him. Every sunny day, he continues to learn and appreciate how remarkable the energy from the sun really is and how many ways we can harness it for our own use. As a result of this very personal experience, he feels compelled to share this adventure in his Energy Island home.</p>			
A Solar Energy Island Home from the 1790's Case Study		Studio North; 7/16 @ 2:00 PM for 50 min.	
<p>Presenting the many energy systems and efficiency aspect of my newly purchased home: The renovation, by Peter Talmage, of this 1,500 square foot 200-year-old cape included moving it to a new insulated foundation, installation of an electric Fujitsu mini-split HVAC system, high efficiency backup propane heat, new windows & doors, Window Quilts, interior thermo-pane window inserts, three grid-tied PV arrays and a solar hot water system. A 35 square foot hot air collector, open house floor plan that eliminates any daytime electric lights and foam insulation. The overall energy consumption was reduced by over 50%. Our max PV output is now up to 5.4 kW which supplies more than all of the electricity to run the house as well to heat and cool the house.</p>			
Anne Patterson		anne.patterson@solavore.com	
Solavore, LLC		www.solavore.com	
<p>Anne started Solavore after a successful career in hi-tech. She cut her teeth at Hewlett-Packard and managed operations planning for Steve Jobs at NeXT Computer during his Wilderness Years away from Apple. She later worked for 3Com Corporation, managing distribution and logistics for Europe, the Middle East and Africa, while based in the UK. Raised under a big sky in Wyoming, Anne is an expansive thinker, adventurer, and all-around Renaissance woman. A giver, not a taker. She studied music at Colorado State University, became a teacher, and earned a master's degree in mathematics, taking up computer programming at the precise moment when women, despite their early contributions, dropped off the programming map. During her corporate years, Anne fed her soul by mentoring young women and helping build schools in Africa. Today, she lives close to the bone, dividing her time between a sailboat and an off-grid island cottage in the Long Island Sound. Wind and sun play prominent roles in her life. The original Solavore, Anne believes passionately in solar cooking as a clean, joyful, liberating alternative to wood fires and grid-based fossil-fuel appliances.</p>			
Solar Cooking in Your Own Backyard		Outdoors 2; 7/16 @ 11:00 AM for 50 min.	
<p>Participants will learn how they can integrate a solar cooker into their suite of everyday kitchen appliances, saving electricity and fossil fuel while at the same time gaining an awareness of and respect for the practical and useful power of the sun.</p>			
Thomas Polich		Thomas@TAPSynergyworks.com	
TAP Synergy Works, LLC		www.tapsynergyworks.com	
<p>25 years of working experience in energy, and 18 years' direct experience in solar, serving in the capacities of outside counsel, General Counsel/Secretary, Chief Administrative Officer, and Chief Operating Officer for R&D, manufacturing, product and project development, and construction companies. My practice emphasizes transactions in solar and energy technologies, including, business development, mergers, product sales, strategic alliances, intellectual property, employment, warranty compliance, and financing (Mkt. cap \$50k to \$1.4B) international and domestic, private and public. Clients include international developers, manufacturers, contractors, investors and governments.</p>			
Commercial Solar PV Business & Finance		Studio South; 7/16 @ 10:30 AM for 50 min.	
<p>Mastery of a solar system's location, assessment, production and installation is just the beginning of the skills needed. If you seek to create a successful solar business you must have a working knowledge of creation and finance of the business, solar legislation, regulation, incentive, tax, finance and contract issues to properly validate, assess, develop, contract and procure projects that attract the right participants, secure the site, finance the construction, operate and maintain the project for the life of the System. This course will introduce you with the tools to identify and develop the skills to compete in the solar market place.</p>			
Chuck Reiss		vbrreiss@gmavt.net	
Weatherization Works and Solar Works		solarworksvt.com weatherizationworks.com	
<p>Owner of Reiss Building and Renovation, a green construction company, building high performance, net zero energy homes and moving existing homes closer to net zero energy since 1982. Chuck is one of the founding members of Building for Social Responsibility and a director of the Building Performance Professional Association of Vermont. A certified BPI professional and a Home Performance with Energy Star contractor. He is dedicated to getting existing homes off of fossil fuel by a combination of energy efficiency, renewable energy and heat pumps. Chuck is also an adjunct professor at UVM teaching courses on building the green, low energy load home and Chair of the Hinesburg Energy Committee.</p>			
Zero Energy Now, Weatherization/Solar		Yester House; 7/16 @ 2:00 PM for 50 min	
<p>Zero Energy Now will help more of us use energy effectively- a critical step if Vermont is to achieve the vibrant, affordable, and its healthy future envisioned through its energy goals.</p>			

SolarFest Workshop Presentations – Alphabetical by Speaker

Alan Robertson	alan.robertson@sunpower.com	SunPower	www.sunpower.com
I have worked in the solar industry since 2011. My employers have ranged from smaller, custom design shops to larger international organizations. I am currently SunPower's Regional Sales Manager for New England and Canada.			
Innovations and the Future of Residential PV		Outdoors 1; 7/15 @ 2:00 PM for 50 min.	
Discussion of the direction residential PV products are heading in and exactly why things are trending in this direction.			
Victor Reno	vreno@RELightDesign.com	Reno Engineering & Light Design	www.RELightDesign.com
Victor Reno, PE, IES, LEED-AP has been involved in the energy and building professions for more than 40 years as an electrical contractor, teacher/instructor, engineer and lighting designer. He has contributed to books and published numerous articles. Mr. Reno has been the Owner/operator of Reno Engineering & Light Design for more than 20 years. Formerly an adjunct professor at Keene State College, he is currently an instructor in the Architectural/Engineering program at NHTI as well as a full time lighting designer and energy consultant.			
Is it LEDs All the Way?		Museum North; 7/16 @ 9:00 AM for 50 Min.	
The current state of LED lighting and technology and the integration into today's low energy/net zero buildings			
Karl Rosengrant	le_karl@yahoo.com	Center for Transformational Practice	transformationalpractice.org
Karl is a former chemist who escaped the corporate world 18 years ago and turned into Carpenter and Solar Contractor. I currently live at The Center for Transformational Practice in White River Junction, VT with a larger family of community members. I have been interested in and have experimented with Permaculture, as well as sustainable and renewable energies for over 40 years. Whether its building a super insulated house or installing solar hot water systems, cutting edge sustainable solutions really excite and drive me. The ever growing threat from climate change and the ever increasing cost of getting oil has been the impetus for my interest in highly efficient, low cost wood heating systems like rocket stoves. Building a rocket mass heater last year and actually using it to heat with has been a valuable experience. Simon and I want to bring some of that knowledge and experience to others in the hopes that these heaters will become common place which would lower pollution and slow down wood consumption for Vermont.			
Introduction to Rocket Mass Heaters		Museum South; 7/16 @ 10:00 AM for 50 min.	
A one-hour presentation on the theory and benefits of Rocket Mass Heaters. Rocket Mass Heaters are an exciting innovation in the realm of sustainability. First developed by fire science engineers to help reduce developing nation's need for firewood. Since then it has been embraced by the permaculture community as a premier method for low cost, high efficiency space heating. These stoves are largely smokeless and store much of the woods heat all night. Families have realized up to a 90% reduction in wood use.			
Paul Scheckel	paul@parsecenergy.com	Parsec Energy Consulting	www.parsecenergy.com
Paul Scheckel is an experienced energy efficiency and renewable energy practitioner and consultant. He is the author of The Homeowner's Energy Handbook and The Home Energy Diet. He's appeared twice on the acclaimed TV show Ask This Old House and is a writer and blogger for Mother Earth News. Paul's writing and presentations come from experience gained over 20+ years as an energy auditor, renewable energy system installer, electric car converter, and hands-on, off-grid homesteader.			
Energy Efficiency & Renewable Energy Choices for Homeowners		Outdoors 1; 7/16 @ 1:00 PM for 50 min.	
Insulation or solar panels? How do you decide what to do first? I'll share my knowledge as an energy professional, and experience experimenting, managing and living off-grid with sun, wind, wood, biodiesel, and biogas. We'll explore the energy, environment, and economic impacts of efficiency and renewable energy. Participants will learn the basics of various renewable energy systems, deep energy retrofits, and why efficiency is always the most practical first step.			
Renewable Natural Gas		Outdoors 1; 7/16 @ 2:00 PM for 80 min.	
Make your own renewable natural gas from farm and kitchen wastes, or from wood. Learn how to make and use a small biogas digester, and a simple wood-gas camp stove. This workshop will help you understand the basics of both biogas and wood gas, and how you can produce renewable natural gas from biomass and waste resources found at home or on the farm. Participants will be introduced to the fundamentals of both anaerobic digestion and pyrolysis.			

SolarFest Workshop Presentations – Alphabetical by Speaker

Judith Schwartz	judithd@sover.net	Author: Chelsea Green Pub. and St. Martin's Press	www.judithschwartz.com
Judith D. Schwartz is Vermont-based journalist whose current work focuses on ecological restoration. Author of Cows Save the Planet (Chelsea Green Publishing, 2013) and Water In Plain Sight: Hope for a Thirsty World, out from St. Martin's Press in July 2016.			
Environmental Solutions in Plain Sight		Studio South; 7/16 @ 3:00 PM for 50 min.	
The workshop will focus on reframing our global environmental challenges in a way that illuminates potential solutions, indeed solutions that are in plain sight. For example, I will invite people to regard climate change as a symptom of distorted carbon, water and energy cycles, and to see how this creates opportunities to address the problem in a way that looking at fossil fuel emissions alone does not. I will draw from my reporting for Water In Plain Sight: Hope for a Thirsty World and Cows Save the Planet and Other Improbable Ways of Restoring Soil to Heal the Earth and offer examples from my reporting around the world of people who have been able to solve problems and create abundance by working with natural systems.			
Tom Shea	Tom@deconstructionworks.com	Deconstruction Works	www.deconstructionworks.com
Deconstruction - A Green Alternative to Demolition		Outdoors 1; 7/16 @ 12:00 PM for 50 min.	
Deconstruction, a green alternative to demolition / Using reused materials in your building project			
Freddy Shehadi	Freddyshehadi@gmail.com	Rupert Mountain Records	freddyshehadi.com
Freddy Shehadi is an Emmy Award winning Guitarist/Songwriter living between NYC and VT. He has been on tour with and/or shared the stage with Martin Sexton, Butch Trucks, Mike Zito & the Wheel, members of The Johnny Winter Band Scott Spray and Paul Nelson, Debbie Harry, Jose Feliciano, Rob Eaton of DSO, Max Weinberg of Bruce Springsteen Band. Besides his work with major record labels, Freddy's compositions have been heard worldwide on major network shows and major films: Sex In The City, Cradle Will Rock, The Guru, The Today Show, PBS, and A & E. From 1997 to 2007 he composed, produced and performed The Today Show themes (most notably America's First Family) for which he received a Mobius Award. Currently Freddy is playing festivals and shows on the east coast, and recording and videotaping in his studio and on location from Burlington to NYC			
Guitar Master Class		Yester House; 7/16 @ 12:00 PM for 50 min.	
An in-depth look at the wonders of the guitar from a physical, theoretical, practical, unique and creative point of view.			
Laura Simon	simonlaura06@gmail.com	People's Music Network	http://peoplesmusic.org/
Laura Simon is a PMN member, a political singer/songwriter, and co-founder of UV350VT. Her activism has focused on closing VT Yankee and stopping pipelines in Lebanon, NH, Western VT, Northeast Vermont, and Western Mass.			
Song Swap: Struggles for Freedom and Social Justice		Yester House; 7/15 @ 6:00 PM for 80 min.	
In this participatory song swap, members of People's Music Network (PMN) invite songs that reflect the dreams and struggles of today's frontline freedom and social justice movements. During this workshop, you will also hear a little bit about PMN, an organization that for 40 years has been gathering artists and activists together to sustain traditions of using music for social change. Our next gathering is in Greenfield, MA January 27-29, 2017.			
Heather South	heather.south@sustainabledesignspecialties.com	Sustainable Design Specialties VT Green Building Network	sustainabledesignspecialties.com vtgreenbuildingnetwork.org/
Heather South, LEED AP BD + C has a Bachelor's of Business Administration (BBA) from the University of Toledo and is the President/Sustainability Consultant at Sustainable Design Specialties, LLC, a LEED Consulting firm. She is also a sales consultant at Kelley Bros, a Door and Hardware Distributor. She has over 9 years of experience in the construction industry, working for various manufacturers, and was formerly sustainability lead for the Rocky Mountain Region at ASSA ABLOY in Denver, CO. Her love for green building design began with spearheading the business development arm of One Globe Renewables, a solar financing company. Heather has extensive knowledge of the LEED rating system and has taught several continuing education courses. She previously served as the treasurer of the Door & Hardware Institute (DHI) Rocky Mountain Chapter.			
LEED Strategies in Vermont/VT Green Building Awards		Museum North; 7/15 @ 4:00 PM for 50 min	
LEED Strategies that have worked in Vermont, specifically relating to energy efficiency and ways to work around the LEED credit for On-Site Solar. Transitioning into Vermont's Greenest Building Award's that are put on annually by Vermont Green Building Network (that focus on how buildings are actually performing efficiently after being occupied) and then providing a brief overview of Vermont Green Building Network and the Organization and their involvement in the Green Building space in Vermont as a whole.			

SolarFest Workshop Presentations – Alphabetical by Speaker

Theo Talcott theo.talcott@mail.sit.edu Transition Town Manchester			
<p>Theo Talcott is videographer, musician, climate activist. His videos are on youtube/theo talcott.</p>			
Communities Transitioning Away From Fossil Fuels		Outdoors 1; 7/15 @ 3:00 PM for 50 min.	
<p>Power of change happens in community. It has to happen where we live. How do we, as a community, make the transition away from fossil fuels? Come see what Transition Town Manchester is doing and bring your own ideas!</p>			
George Twigg george.twigg@mail.house.gov Office of Congressman Peter Welch welch.house.gov			
<p>George Twigg is State Director for Congressman Peter Welch</p>			
Washington Perspective on Energy		Yester House; 7/15 @ 3:00 PM for 50 min.	
<p>George Twigg from the office of Congressman Peter Welch will be joined by Haley Pero from Senator Sanders office and Tom Berry from Senator Leahy's office to provide an update on federal issues related to renewable energy and energy efficiency</p>			
Tony Vacca tonyvacca@comcast.net World Rhythms Productions www.tonyvacca.com			
World Percussion		Arkell; 7/16 @ 9:00 AM for 80 min.	
<p>This is a hands-on session in which participants learn to play a percussion composition. The instruments involved usually include djembe drum, balafon, tuned bells, shekere, djun-djun drums and additional percussion instruments. Participants usually work together, and all skill levels are welcome. By virtue of the instrumentation and the sensibility of the composition, this workshop is equally about the phenomenon of World Music as it is about developing an awareness of how we are all connected in this ensemble and in the world around us. The two most common traditional rhythms used are Atsi Agbekor, and 3-2 son clave.</p>			
Circle of Gongs		Arkell; 7/16 @ 10:30 AM for 50 min.	
<p>This hands-on workshop is a brief exploration of how a composition for an orchestra of twenty gongs can transform an environment and the people in it. It's fair to say it's an "above and beyond" kind of experience to swim in the matrix of these vibrations. Clear your mind for this. Limited to 20</p>			
Todd Walker twalker@fwg.com Greenvest www.greenvest.net			
<p>Todd has been a registered SRI advisor since 2004, first as the Vermont office manager for Progressive Asset Management, and now as a founder of Greenvest, with offices in Wells, VT, Whately, MA and Boston, MA. Greenvest provides personal consulting on socially responsible investing, including investing for retirement, current income, education, or for trusts.</p>			
The Power of Socially Responsible Investing		Studio South; 7/16 @ 1:00 PM for 50 min	
<p>Socially-conscious investing can be a powerful force for social change. This workshop will provide a short introduction to the field, then move on to the most important social and green investment developments/opportunities today, such as fossil fuel divestment, alternative energy investing, finding higher income than today's low bank rates, community investing, local and impact investments, "slow money", socially responsible exchange traded funds, green bonds, women's investment funds, and more.</p>			
Bob Warren kbwmusic@me.com KBW Music Bob-warren.com			
<p>A songwriter for more than forty-years whose songs have been recorded, and performed by numerous singers, and whose music has touched the hearts of many listeners.</p>			
Songwriting		Yester House; 7/15 @ 4:00 PM for 50 min	
<p>We will look at the ins and outs of writing a song, then we will throw all of that out the window and let the wind carry it where it will. An exchange of ideas. A list of resources and suggestions. A time to share finished songs or works in progress.</p>			

SolarFest Workshop Presentations – Alphabetical by Speaker

Ken Welch		kwelch@vermontel.net		Energy Innovation Center	
Retired civil engineer, building analyst and energy efficiency consultant					
Cold Climate Heat Pumps				Studio South; 7/16 @ 11:30 AM for 80 min.	
Presenting the results of a study in fuel assisted residences in Vermont, their economic and health effects, and potential for state policy switch from fuel to electric assistance programs.					
Heat Pumps - A Fuel Switching Paradigm				Studio South; 7/16 @ 4:00 PM for 50 min.	
Workshop will present the results of a recent study that installed cold climate heat pumps in low income Vermont residences and monitored the cost of operation compared to that of their previous fossil fuel heaters. The results of the study showed dramatic savings in both heating and cooling annual costs along with increased comfort, health and carbon reductions.					
Ernie Wilson		ernie.wilson@stiebel-eltron-usa.com		Stiebel Eltron	
www.stiebel-eltron-usa.com					
Ernie Wilson has been working at Stiebel Eltron since 2006. From September 2008 - May 2012, he attended UMass Amherst and obtained a degree in Electrical Engineering, but he still worked at Stiebel Eltron during summer and winter breaks. He started in a new full time position in June 2012.					
Heat Pump & Solar Thermal Water Heaters				Yester House; 7/16 @ 3:00 PM for 50 min	
Discuss various applications of solar thermal systems: domestic water heating, space heating, and commercial. Discuss air source heat pump water heaters, how they work, and installation and application considerations.					
Helena Wu DeMars		Helena@goodmedicinetree.com		Mama Wu's Good Medicine	
www.goodmedicinetree.com					
Helena is an herbalist, flower essence and Reiki practitioner. She loves introducing people to the magic of their green relations. She offers classes and health consultations.					
Medicine from Field & Forest				Outdoors 2; 7/16 @ 12:00 PM for 80 min.	
Our ancestors knew how to commune with the plants and use them for healing. Come spend time tuning in to the green world and learn to hear what our plant relatives are saying. Walk the grounds of the SVAC and learn about common plants for common ailments. Your medicine may be as close as your doorstep.					