

saturday workshops

	10:00 -10:50 AM	11:00 -11:50 AM	12:00-12:50 PM
<p>TENT 1 <i>Sponsored by State of Michigan Energy Office</i></p>	<p>Leelanau Sustainable Living Center Gary Woodcock, Healthy Indoor Environments</p> <p>Healthy Indoor Environments is bringing people and resources together to design and develop a model sustainable living community.</p>	<p>The Natural Gas Crisis in America John Richter, Institute for Sustainable Energy Education</p> <p>Natural gas prices have more than tripled in the last decade. Increased drilling has yielded diminishing returns. What consequences await us?</p>	<p>**NOTE WORKSHOP CHANGE** Making Your Own Biodiesel is as Easy as A-B-C! Dan Dykema, Azure Biodiesel</p> <p>Learn the benefits of making your own Biodiesel and how Biodiesel can be used.</p>
<p>TENT 2 <i>Sponsored by NextEnergy</i></p>	<p>Switch Grass: The Other Alternative Fuel David Glenn, MSU Extension—Presque Isle</p> <p>Switch grass can be used to generate electricity and heat, as well as gas. Learn about the potential switch grass has in Michigan.</p>	<p>Basic Off-Grid PV Dan Alway</p> <p>This workshop will demonstrate a working off-grid PV system. The components necessary to make a PV system work off-grid will be discussed.</p>	<p>Renewable Energy Decision Making John Wakeman, S.U.R. Energy</p> <p>Comparing solar electric, solar thermal, and wind electric systems for homes from an environmental, economic and practical point of view.</p>
<p>TENT 3 <i>Sponsored by Cherryland Electric Cooperative</i></p>	<p>Biodiesel Basics: From the Farm to Your Fuel Tank Jeremy Whiddon, Crystal Flash Energy</p> <p>A cursory look at biodiesel production, handling and marketing. Special attention will be paid to the benefits and future of biodiesel in Michigan.</p>	<p>Ethanol Production and Utilization in MI and the U.S. Crystal Schulz, Corn Marketing Program of Michigan</p> <p>This workshop will offer an overview of ethanol, its production and its current role within the fuel industry.</p>	<p>Build Different. Build Better. Team Elmer's</p> <p>From creating indoor air quality and soundproofing, to reducing heating, cooling and maintenance costs, learn about the benefits of insulated concrete forms.</p>
<p>TENT 4 <i>Sponsored by Little River Band of Ottawa Indians</i></p>	<p>The Grass is Always Greener Over the Septic Tank: New Innovations in Onsite Wastewater Treatment Jim Minster, P.E., Brett Gourdie & Jason Bochert, P.E., Gourdie-Fraser, Inc.</p> <p>Learn about innovations in the world of onsite wastewater treatment.</p>	<p>Negotiating Leases with Wind Farm Developers Rodger A Kershner, Howard & Howard Attorneys PC</p> <p>Public and private landowners will learn about the pros and cons of leasing property for wind farm development.</p>	<p>Biomass to Methane to Electricity: Using Advanced Anaerobic Digester Technology Sarah Lineberry, Grand Valley State University</p> <p>Learn about Dr. Imad Mahawili's (MAREC) project to convert cow manure to methane to electricity.</p>
<p>TENT 5 <i>Sponsored by Noble Environmental Power</i></p>	<p>Renewable Energy Options & Resources Patrick Hudson, Michigan Energy Office</p> <p>This seminar will provide an overview of renewable energy opportunities, service providers and other resources.</p>	<p>RPS in Michigan Jennifer Alvarado, Great Lakes Renewable Energy Association</p> <p>Learn about the benefits of implementing a Renewable Energy Portfolio Standard in Michigan.</p>	<p>Do It Yourself - How to Achieve Energy Savings Aileen Gow, Urban Options</p> <p>This seminar will feature methods on how to reduce energy consumption through making simple "do-it-yourself" improvements.</p>

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1:00-1:50 PM	2:00-2:50 PM	3:00-3:50 PM	4:00-4:50 PM
<p>KEYNOTE ADDRESS AT GRANDSTAND</p> <p>Re-Energizing America: Rescuing America from its Costly Fossil Fuel Addiction</p> <p><i>Daniel D Chiras, PhD Sustainable Systems Design, Inc.</i></p>	<p>Wind Tower Siting Issues for Local Officials Michael Klepinger, MI Sea Grant</p> <p>Important topics include: Local Tax Revenue Issues, Tower Heights, Tower Setbacks from Lot Lines and Buildings, and more.</p>	<p>A Sustainable GREENER Energy Future: Long-Term, Low-Cost Onsite Generated Renewable Energy and Education at Schools Gary Westerholm, McKenzie Bay International Ltd.</p> <p>Learn about Windstor's program in the Upper Peninsula.</p>	<p>Can Public Schools or Universities Own Wind Turbines? Donald Scherer, Bowling Green State University</p> <p>A Model and procedure for public educational institutions to follow in partnering in wind farm development.</p>
	<p>Heating and Cooling Energy Audits for Geothermal Systems Kirk L Patton, Patton Mechanical LLC</p> <p>This workshop will discuss how to properly size a geothermal heating and cooling system.</p>	<p>Free Heat for Life: Learn the Fundamentals of Affordable Passive Solar Design Daniel D Chiras, PhD, Sustainable Systems Design</p> <p>Learn how to tap into the sun's energy to heat your home, even in the colder regions of North America.</p>	<p>Dual Mode Solar Air Systems David Lankheet, Sundu Solar</p> <p>Dual mode systems are a popular method for space heat in existing homes. They can also heat water during the summer months.</p>
	<p>Vegetable Fuel Systems for Diesel Vehicles Randall L Webber</p> <p>A presentation on biodiesel and straight vegetable oil (SVO) and how it works in diesel engines.</p>	<p>The Hydrogen Economy: A Review of Hydrogen Power Generation in Michigan Dr. Robert W Fletcher, PhD, Lawrence Technological Univ.</p> <p>A technical review of the Hydrogen Technology Power Park.</p>	<p>Lessons from Zero Energy Homes Christina Snyder, Sustainable Spaces</p> <p>Learn to integrate energy efficiency and renewable energy systems to produce as much or more energy than you consume.</p>
	<p>Go Green! (and we don't mean MSU!) Mike Corby, AIA, LEED AP and Steve Kinder, PE, LEED AP, Integrated Architecture</p> <p>How a few simple changes can turn the world green. Case Studies on sustainable design & the LEED process.</p>	<p>Direct Marketing and Local Organic Food Production: Community Supported Agriculture (CSA) Corie Pierce, MSU Organic Farm</p> <p>You will learn about the hows and whys behind CSAs and how to start and operate a successful CSA.</p>	<p>Great Lakes Permaculture: Energy and the Local Connection Jay Tomczak, MSU Organic Farm</p> <p>Workshop participants learn about permaculture projects in the region and how to implement concepts in their communities.</p>
	<p>Michigan Alternative & Renewable Energy Center (MAREC) Felix Goto, MAREC</p> <p>Learn the initiatives that MAREC is undertaking to teach and demonstrate renewable energy technologies.</p>	<p>Michigan Renewable Energy Program (MREP) Open Forum Tom Stanton, MREP</p> <p>Learn about present and future MREP activities, MPSC and Michigan legislative renewable energy policy.</p>	<p>Green Money: Financing Energy Efficient and Renewable Energy Projects Joel Wiese, Indigo Financial Group</p> <p>Open discussion and examples of energy efficient mortgages.</p>