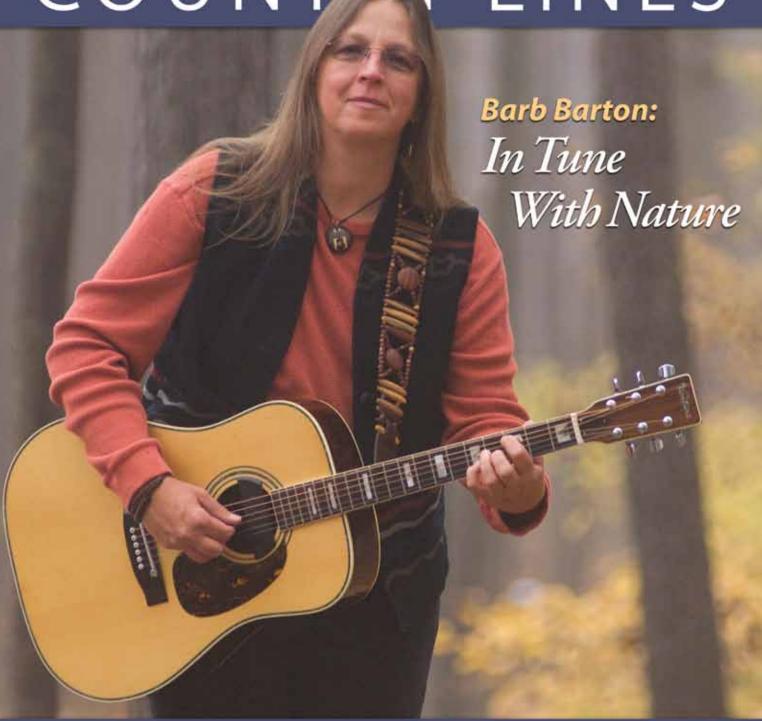
# Michigan COUNTRY LINES





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#### February 2012 Vol. 32, No. 3

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Michigan Country Lines, USPS-591-710, is published monthly. except August and December, with periodicals postage paid at Okemos, MI, and additional offices. It is the official publication of the Michigan Electric Cooperative Association, 2859 W. Jolly Rd., Okemos, MI 48864.

Subscriptions are authorized for members of Alger Delta, Cherryland, Cloverland, Great Lakes, HomeWorks Tri-County, Midwest Energy, Ontonagon, Presque Isle, and Thumb electric cooperatives by their boards of directors. Subscriptions are \$6 per year.

Postmaster: send address changes to Country Lines, 2859 W. Jolly Rd., Okemos, MI 48864.

Letters to the editor should be sent to the same address. Phone 517-351-6322. Email: gknudtson@ meca.coop.

Association officers are Brian Burns, PIE&G, chairman; Ken Swope, Midwest Energy, 1st vice chairman; Tony Anderson, Cherryland, 2nd vice chairman: Eric Baker, Wolverine Power, secretarytreasurer; and Steve Boeckman, Great Lakes Energy, past chairman. **Craig Borr** is president and CEO.

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## Michigan's Electric Cooperatives countrylines.com

#### On the Cover\*

Barb Barton is a popular Michigan musician, business owner and biologist who's in tune with nature.

Photo – David Kenyon



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### Member Regulation Takes Effect This Spring

he board of directors unanimously approved a proposal on Dec. 21, 2011, that will make Great Lakes

Energy a member-regulated electric cooperative by the end of March. (Minutes of that meeting are on the next page.)

Made possible by Public Act 167 of 2008, member regulation restores an electric cooperative's right to make certain business decisions without having to seek state regulatory approval. Starting this spring, final authority on any changes regarding rates and charges, billing practices and

accounting standards will rest with your locally-elected board, rather than with state regulators in Lansing. Being member-regulated is actually a return to the way Michigan electric co-ops used to operate, when

rate changes were decided by local co-op boards.

To give you a little history, the state assumed regulatory control over the cooperatives in the 1960s, when co-ops wanted territorial protection of their service areas. The state agreed to regulate the mat-

ter with the understanding that rates and other co-op business would be regulated, too. The Michigan Public Service Commission (MPSC) was granted this regulatory responsibility.

#### **What Happens Next?**

We will continue to operate under the same rules and regulations governing rates, charges and billing practices that were approved by the MPSC.

However, member regulation will give directors more flexibility in deciding issues that directly impact you, as co-op members. When rate changes are sought, the board of directors will follow procedures established by P.A. 167, including informing members of the proposed changes in *Michigan Country Lines*. Members will have the opportunity to comment on

proposed changes, and will be notified 30 days prior to the effective date of any rate or rule change. A 10-day member notice is

required to announce the time and place of a board meeting where directors will discuss and act on a rate increase that affects at least 5 percent of the members or "substantive" changes in billing rules or terms of service.

You can also write, phone or email us with your comments.

Your co-op will also save money, which can attribute to higher margins that are eventually returned to members in

the form of capital credits. By not having to follow the costly and time-consuming process of obtaining rate approval from the MPSC, we will save \$135,000 per year in assessments paid to the commission. Legal



Steve Boeckman Great Lakes Energy President/CEO

Member regulation restores an electric cooperative's right to make certain business decisions without having to seek state regulatory approval.

and consulting fees involved with each rate change in the future will also be reduced, adding up to tens of thousands more in savings.

Member regulation allows critical decisions regarding the price you pay for power to be made by local directors who are elected to represent your interests as a member and owner of Great Lakes Energy. Any rate changes will affect their electric bill, too, because they're members just like you. Because we are a cooperative, directors will approve rates and charges that reflect the actual cost of providing service.

We work to keep rates as affordable as possible by controlling costs in all areas of our business, even those related to the rate approval process. That's the cooperative difference.



#### MINUTES OF SPECIAL MEETING OF BOARD OF DIRECTORS

Cadillac, Michigan **December 21, 2011** 

On Wednesday, December 21, 2011, a special meeting of the board of directors of Great Lakes Energy Cooperative ("the Corporation" or "the cooperative") was held at Fox Hill Event Center, 7640 Mackinaw Trail, Cadillac, Michigan. The purpose of the special meeting was to seek member input prior to board consideration of member regulation as authorized under 2008 Public Act 167 (P.A. 167).

**CALL TO ORDER** – The meeting was called to order by Chairman Robert Thurow. In attendance were the following members of the board of directors: Paul Byl, Mark Carson, Richard Evans, Dale Farrier, Robert Kran, Laurence Monshor, Susan Scott, Robert Thurow and Richard Walsworth, constituting a quorum. Also in attendance were: President and Chief Executive Officer Steve Boeckman, Vice President and Chief Financial Officer Bill Scott, Shari Joles, Shaun Lamp, Charles Lake, Nicole Pofahl and Michael Roberge of Great Lakes Energy Cooperative and Legal Counsel Albert Ernst of Dykema Gossett, PLLC.

INTRODUCTORY COMMENTS - Mr. Ernst advised that, at least 90 days prior to the day's special meeting, at a properly convened meeting of the board of directors, a Corporation director proposed that the Corporation become member-regulated. Mr. Ernst further advised that written notice of the time and place of the day's (December 21, 2011) meeting had been provided to all members of the cooperative, delivered not less than 21 or more than 60 days before the date of the meeting, that such notice contained a copy of the proposal, and that such notice had been published in Michigan Country Lines, a periodical issued by the Corporation and mailed to each member of record of the cooperative. Mr.

Ernst further advised that the meeting of the board of directors at which the proposal was to be acted upon was open to all members of the cooperative; and that the Corporation's board would allow members of the cooperative reasonable time to address the board prior to its acting upon the proposal.

**MEMBER REGULATION RESOLUTION** – Mr. Ernst then read the proposed member regulation resolution in its entirety. Chairman Thurow then asked for member input

regarding member regulation. There was only one member question: if savings were realized from member regulation, would they be passed along to the members? Discussion regarding the Corporation's

These unapproved minutes are published in accordance with P.A. 167 of 2008.

capital credit refund process followed. Following no further comments or questions from members and upon motion duly made and seconded, the board unanimously approved via roll call vote for the Corporation to become member regulated.

ADJOURNMENT - Per motion duly made, seconded, and unanimously approved, the special meeting was adjourned.

Susan Scott, Secretary

APPROVED: Robert Thurow, Chairman



#### Life's Curveballs

It tickled me to read the article "A Life of Curveballs" (Jan. 2012, countrylines. com) because I had been in the hospital in December for a weekend stay. No, I did not have a roommate, but there have been times that I did. Mike Buda's 'way with words' just got to me and I had to laugh. He has a gift! The whole illustration was funny. I needed a good laugh, and this did it. So, tell me, does Mike proofread book manuscripts? I would be interested to know if he does or knows somebody who seriously does. Thank you for a good laugh. I appreciate his sense of humor, it was funny.

– Gail Vanden Brook

Editor's Note: You can email Mike at mbuda@countrylines.com to find out if he's in the proofreading business.

#### **Nuclear Discussion**

Although I appreciate all the letters written about nuclear power, one piece of the puzzle here that has been left out is the subject of nuclear waste. The waste is so poisonous to the soil and air that absolutely no one wants it in their state. NIMBY (Not In My back Yard) is the prevailing view, and for good reason.

The waste is extremely dangerous to transport, so it has stayed at the nuclear plants where it was produced. Now, decades of this waste has been building and

building, overflowing the plants' storage containers and is now being stored in casks outside the plants. I have seen pictures of piles of these casks in plain view along Lake Michigan.

So, unless the problem of waste is solved, all the statistics on how safe, clean and efficient nuclear is, do not matter in the long run. Personally, I do not think this problem will be solved. It has not been solved after all these decades and decades of our best scientists and politicians trying to solve it. Also, in the process, there has been a big attempt to fool the American people into thinking that it has been or is being dealt with.

We should not build new plants, and even if we were to close all the nuclear plants in the world today, we would still have a terrible problem for hundreds of years.

Nuclear waste does not go away. It lasts forever.

– Brenda Beadenkopf, Niles/ Edwardsburg

Thank you, James Benner, for your letter on the nuclear Navy. There has NEVER been an accident with the nuclear power plants on the Navy's subs and ships. In comparison, ships using diesel fuel are accident-prone and huge polluters. Nuclear waste is also a no-brainer, an invented problem. Where do we get nuclear fuel? By mining natural uranium. So just reverse the process, thinning spent fuel with massive amounts of rock (reverse mining) and cement. Then stack it up in the same uranium fields -- we may need it some day. It's also possible to recycle nuclear fuel, making it re-usable so no more uranium mining is needed. Where nuclear accidents have occurred in the U.S., they've been minor, blown out of

proportion by the media and headline grabbers. (Remember that "Three Mile Island" occurred at the same time a forgettable Jane Fonda movie was released about a worstcase nuclear accident. Great publicity! Terrible nuclear accidents can happen, see Chernobyl and more recently Japan, but the human incompetence has to be truly staggering. Those Japanese plants were scheduled to be shut over a decade ago and the emergency diesel engines were originally intended to be on the top floor. No one knows, or is admitting, who decided to ignore the schedule or who moved the emergency power plant. Hey, even my pellet stove has an expected life span, had to be carefully installed, and needs regular mainte-

On any question we always have to do the research, weigh the pros and cons, and act responsibly.

Just wondering: Have the electric co-ops and other companies considered, oh, sheep? A shepherd and dogs following the rights-of-way; nothing clears the land like sheep. Except, oh, goats!

- Beth Clemensen

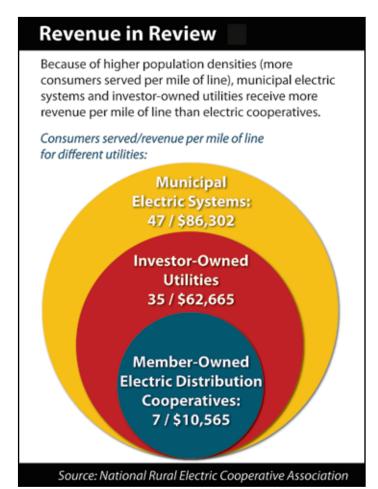
#### **Portable Heat Pumps**

I enjoyed your article on heat pumps ("Heating and Cooling: Weigh Your Options"/James Dulley/January 2012).

You talked about a *portable* heat pump—can you tell me who makes these, and how they work? Thanks.

- Richard Minue

Editor's Note: You can find information on portable and other heat pumps, including suggested manufacturers and where to buy them, by visiting dulley.com. Type "portable heat pumps" in the site's Search menu, found at the top of the home page.





TIP: Wash your bathroom mirror with shaving cream to prevent it from steaming over.

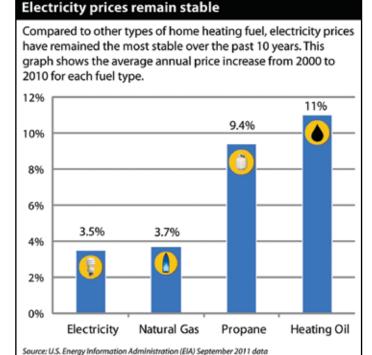
- Don Smith, Mt. Pleasant

TIP: Take a reusable shopping bag into every store you go in, not just the grocery store.

– Jen Recuz, Detroit

Share Your Tips With Readers! Please tell us, in 50 words or less, the ways you make life better, easier, healthier and more fun. These may include tips about health, finance, relationships, organizing time, energy and water conservation, maintaining your house and yard, gracious giving, recycling and re-using to create less waste, or giving to your community. We'll try to print as many tips as we can in each issue.

Email czuker@meca.coop or mail to Country Lines Lighter Living Tips, 2859 W. Jolly Rd., Okemos, MI 48864. Please include your name and town.



### MECA **Scholarships** Offered

ach year, the Michigan Electric Cooperative Association awards two \$1,000 scholarships to qualifying applicants. Individuals are chosen based on their scholastic achievement and extracurricular involvement during their high school career.

The applicant's parent or guardian must be a member or employee of a Michigan electric co-op, and the applicant must be planning to attend a Michigan college or school full-time.

Selection will be based on grade point average, character, leadership, academic achievement, extracurricular and community activities, and essay response.

Applications are available at countrylines.com; click on "Youth," email tschafer@ meca.coop, or call 517-351-6322, ext. 205. Eligible applications must be postmarked by April 6, 2012.

### **Hearts** At Risk

ealthy hearts face risks from many different factors: high cholesterol, obesity, diabetes, tobacco use, an unhealthy diet, physical inactivity, and secondhand smoke, among others. But another common—and often misunderstood—risk factor is high blood pressure.

One in three Americans suffers from high blood pressure, according to the American Heart Association (AHA). With February as American Heart Month, now's a great time to understand more about this condition.

Blood pressure is typically recorded as two numbers, written as a ratio: 118/75 mm Hg. The top number, *systolic*, measures artery pressure in the arteries when a heart beats and the heart muscle contracts. The bottom number, diastolic, measures artery pressure between heartbeats (when the heart muscle rests between beats and refills with

blood). The AHA lists five blood pressure stages:

Normal: Systolic less than 120 and diastolic less than 80

**Prehypertension:** Systolic between 120-139 or diastolic

**High Blood Pressure Stage 1:** Systolic between 140-159 or diastolic between 90-99

**High Blood Pressure Stage 2:** Systolic 160 and higher or diastolic 100 or higher

**Hypertensive Crisis:** (Emergency care needed!) Systolic 180 and higher or diastolic 110 or higher.

To help diagnose high blood pressure, health care providers want an accurate picture

of blood pressure to chart what happens over time. Starting at age 20, AHA recommends a blood pressure screening at

least once every two years. If a blood pressure reading is higher than normal, a doctor may take several readings over time and/or have the patient monitor blood pressure levels at home before

diagnosing high blood pressure. A single high reading does not necessarily translate to high blood pressure. However, if readings stay at 140/90 mm Hg or above (systolic 140 or above or diastolic 90 or above) over time, a doctor will likely begin a treatment program, which almost always includes lifestyle changes and often prescription medication.

If, while monitoring blood pressure, a patient notes a systolic reading of 180 mm Hg or higher or a diastolic reading of 110 mm HG or higher, the patient should wait a few minutes and try again. If the reading remains at or above that level, a patient should seek immediate emergency medical treatment for a hypertensive crisis.

Typically, more attention is

To learn more,

given to the top (systolic) number visit heart.org as a major risk factor for cardiovascular disease for people over 50. In most

> cases, systolic blood pressure rises steadily with age because of increasing stiffness of large arteries, long-term build up of plaque, and increased incidence of cardiac and vascular disease.

#### **GLE Director Honored**

reat Lakes Energy director Richard Walsworth of Mears (right) received a certificate of achievement from the National Rural Electric Cooperative Association (NRECA) for successfully completing its Board Leadership program.

Walsworth is shown being congratulated by board chairman Robert Thurow.

NRECA is the national ser-



vice organization for electric cooperatives that offers professional development programs for local electric co-op directors. The educational programs are designed "to prepare directors to make wise business decisions in the boardroom."

#### Visit Us at the Home Shows



ark your calendar and plan to visit the Great Lakes Energy booth at the home show nearest you.

Stop by to see our Marathon® electric water heater, and Convectair® electric space heaters that can be used as a whole-house heating option, and our Energy Bike. Our representatives will also be on hand to answer your questions about new Energy Optimization programs that can save you energy, and all our other products and services!

**Northern Michigan** Regional Home Show • March 9-10 North Central Michigan College, Petoskey

**Newaygo Home & Garden Show** April 14 • Newaygo Middle School

**West Michigan Home & Garden Show** April 27-29 • Mason County Fairgrounds, Ludington

#### **GLE Members Are Satisfied**

he 2011 member survey results show that 96.6 percent of Great Lakes Energy members are "satisfied" or "more than satisfied" with the overall level of service they receive. Annually, the research services staff at Northwestern Michigan College in Traverse City performs a member satisfaction survey for the cooperative. A total of 387 surveys were completed in the fall of 2011 by phone calls made to a random sampling of residential GLE members.

Great Lakes Energy uses the survey results to develop our annual corporate goals. The results are also used to make service improvements as your cooperative strives to provide reliable service at the best possible value for you, the member.

Members rated reliability, courteous employees and cost of service as the three most important service characteristics that GLE provides. The majority of respondents indicated they feel GLE practices its mission to provide reliable service at the best possible value very effectively. We also scored 79 on the American Customer Satisfaction Index (ACSI), based on the answers to four questions in the survey. This score is a full 4 points higher than the investor-owned utility average.

The survey data helps us focus our improvements on areas that are most important to members. Thanks to the members who took the time to participate in the 2011 survey. We appreciate your high marks and will continue looking out for you in the years to come.

If you have a comment about our service, please let us know. Call, write or email us at glenergy@glenergy.com.

#### **New Reliability Goal** for 2012

AIDI (pronounced SAY-DEE) says Great Lakes Energy's reliability goal this year is to not exceed 177 average outage minutes.

If successful in 2012, the cooperative will



**SAIDI Says** 

have met its annual reliability goal for almost seven straight years. It did not meet its 2011 goal.

The reliability goal is based on average outage minutes recorded during normal conditions. Typi-

cally, the outages are due to weather, animals, equipment failures, vehicle accidents and other causes.

Data from the previous five years was used to establish the 2012 goal.

The cooperative uses SAIDI (System Average Interruption Duration Index), an industry standard, for determining average outage minutes. This system is an indicator of the average amount of time a GLE member could be without power in a given year. Since it represents an average, some members actually experience no outage times while others experience more than the SAIDI number.

Weather-related outages are factored into the SAIDI calculations, with the exception of major event days (MEDs). Storms that create MEDs are not common and only happen once or twice a year across the co-op's entire service area.

Great Lakes Energy will continue to use various design measures to limit the weather's damaging impact on its distribution system. Investments in distribution automation equipment, addition of more line protection devices, uses of new technologies, and continued intensive vegetation management activities within power line rights-of-way, are all helping to get the lights on safely and more quickly for members during storms.

The co-op's ultimate goal is to not exceed 90 average outage minutes a year. It will take time to do this, given our large 26-county service area and the financial resources required. We will continue to make improvements each year in areas where reliability still lags behind other electric cooperatives.

Watch for future issues of Michigan Country Lines for more SAIDI goal updates.



### **Co-op Safety Show Is An Eye-Opener**

bservers quickly learn new respect for electricity when they see what happens to common objects placed on a live power line.

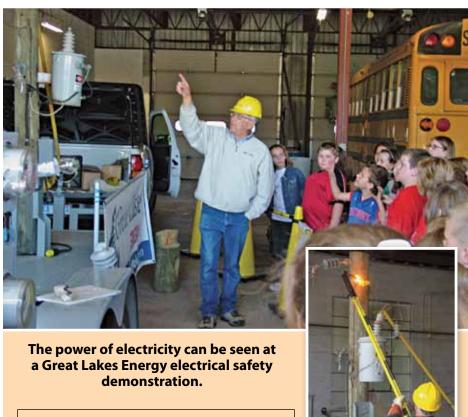
It's part of Great Lakes Energy's power line safety demonstrations. The traveling program shows how we look out for our members by bringing our electrical safety message to them.

Retired lineworkers demonstrate the power and potential dangers of electricity by placing kite strings, branches, fishing poles or tennis shoes on a 7,200-volt power line mounted on a portable display trailer. Viewers also learn that electricity at much lower voltage can be dangerous, too, if not used wisely in the home.

Grade schools book most of the demonstrations, allowing GLE to bring children a unique type of safety awareness. Demonstrations are also available for older students, firefighters, or at appropriate public events. Demonstrators enjoy sharing examples of real-life situations and answering questions.

You may also see the cooperative's Energy Bike at the safety demonstrations. Those pedaling it can feel how much energy it takes to power various types of lightbulbs, from incandescents to energy-efficient CFLs and LEDs.

Demonstrations take place outdoors if weather permits, or inside if facilities are available.



To find out if your group qualifies for a FREE GLE safety demonstration, call 888-485-2537, ext. 8174, or email safety@glenergy.com.

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## **Barb Barton:** In Tune With Nature

love of nature and the Great Lakes State is evident in everything Barb Barton does, whether she's strumming a guitar and singing her song, "My Michigan," or gathering mushrooms and other native plants.

"I've lived in various places around Michigan and spent time in the Upper Peninsula and as a resident artist on Isle Royale, and have always been in tune with nature and the outdoors," the Lansing resident says, crediting her parents and grandparents for her love of nature. "I remember my grandmother gathering mushrooms and hickory nuts and learning about their uses from her-traditions

that are handed down from one generation to the next."

Looking back on those early years, it was inevitable that Barton's respect for nature walked by Michigan's first residents and eventually result

**View Barton's products** and details about The **Gathering Society at** would lead her on a path wherethewildfoodsgrow.com or call 734-576-8427.

in her starting a natural foods business called Where the Wild Foods Grow. Maple sugar, wild rice from beds in the Upper Peninsula, Chaga (a black, woody mushroom with medicinal properties) and an assortment of other gifts from Michigan's forests, fields and bogs are staple ingredients in Barton's pantry.

The idea for her business came from her work in 2008 while she was an endangered species biologist with the Michigan Natural Features Inventory (through Michigan State University Extension), and helped to develop wild rice camp programs with the Lac Vieux Desert band of the Lake Superior Chippewa Indian tribe in the western U.P. "Wild rice beds have declined drastically in Michigan, and the rice camps are a way of helping return the traditions of wild rice gathering to the people," she says about the work that involves gathering and harvesting "real" native wild rice from lakes and separating kernels from the chaff using traditional techniques—like stomping on the heads in an earthen pit.

"It's an extremely labor-intensive process, but the end result is well worth the time and effort," Barton says. "When you taste the rice, you can feel the sun and hear the sounds of nature—it keeps us connected to Mother Earth."

Due to Michigan cottage food laws, the wild rice and other natural food items can be displayed, but not sold directly online. "All of the items are shown on the website, but customers need to either call or email to place an order for shipment or delivery," she says, noting that directions for use are included with several items like the Chaga fungus that's used in tea.

Barton's products are seasonal, depending upon what's available mushrooms in spring; wild fruits and wild rice in summer and fall;





Above: Barb Barton displays some of the wild foods sold through Where the Wild Foods Grow. Bottom: Members of "The Gathering Society" met recently to make canteens out of gourds. Canteen gourds grow in a naturally round and flatter shape, mostly in the south and Canada, but you can buy the seeds.

and jelly, teas and maple sugar year-round.

"I'm working on a set of wild teas that will use old-time spices like crushed leaves from bee balm flowers, spicebush berries and sweet fern—it's very aromatic," she explains.

Wild mint tea and Labrador tea made from a shrub that grows in

boggy wetlands will be among the new items on the website along with Barton's corn cob jelly and handmade maple sugar.

"People ask me how to use maple sugar," she says, laughing and noting that the pure foodstuff is nature's original sweetener.

Barton is enlisting the aid of friends to expand her product line and encourage people to explore truly "natural" foods prepared in traditional ways. "I've learned from people like Daisy, who is from the



Barton harvests wild cranberries in an elm bark berry basket made by basketmaker Kit Pigeon from the Gun Lake Band of Pottawatomi. The berries are found in northern bogs, nestled in sphagnum moss.

James Bay Cree First Nation and has a wealth of knowledge, and I'm working with a local gourmet chef to develop recipes," she says. "There's a growing interest in Michigan's natural foods."

A venture Barton started several years ago is also being revived. The Gathering Society is a group open to women of all ages who are interested in learning about and sharing information on the traditional uses of wild foods and herbs. The group meets regularly throughout the year. The January meeting included a dinner of wild foods at Barton's Lansing home, and a creative session where everyone made canteens from canteen gourds, which grow round, but also flatter in shape.

Barton also displays her love for nature in her lifelong affair with music-she has six CDs (listen at barbbarton.com or CDBaby.com) that feature traditional sounds with wonderful harmonies and her original lyrics.

"It's really about carrying on traditions and connecting people again with nature," she says.

### Will Malicious **Code Crack** the Grid?

hreats from cyber hackers—the curious, mischief-minded, and terrorists alike—are an increasing concern for the electric utility sector, including electric cooperatives. While computer and telecommunications technologies allow electric utilities to serve consumers more reliably and efficiently, they also open up potential gateways for "cyber-tage" of critical electric systems.

While news reports about the potential for cyber attacks (including the complex "Stuxnet" computer virus) have raised public awareness about the issue, there are no documented instances of a cyber assault damaging North American power facilities. Why? In part, because utilities, including electric co-ops, started addressing these issues years ago by working with the North American Electric Reliability Corporation (NERC), the nation's electric grid watchdog, and federal agencies to update procedures, standards, and alerts that contribute to protecting the grid from physical and cyber incidents, as well as natural disasters.

However, the ever-real possibility of a hacker undermining digital technologies used by utilities has Congress, the White House, and regulatory agencies considering the right balance of cyber security safeguards and emergency response initiatives. At present, federal law does not enable the government to order utilities to take steps when an imminent threat exists.

As a result, several congressional bills have emerged that would increase federal authority during emergencies to protect "critical infrastructure" like the electric grid. Co-ops argue most of these proposals go too far in expanding Federal Energy Regulatory Commission (FERC) emergency powers. FERC already has authority to instruct NERC to develop or modify reliability standards, including those focused on cyber security.

However, electric co-ops agree that in limited cases where cyber threats are so severe and close at hand that NERC cannot issue instructions to utilities in time,

a federal emergency back-stop may be appropriate until the situation is mitigated, ends, or until NERC can adequately address the hazard through standards and/ or alerts. Co-ops also want federal agencies to more routinely provide actionable, timely intelligence about cyber threats and vulnerabilities to utility industry experts.

Fortunately, electric co-ops are moving forward to erect cyber defenses and fashion robust plans for addressing current and future dangers. At the same time, co-ops recognize that in a rapidly evolving cyber environment, there's no such thing as perfect security. Risk mitigation must become an ongoing process requiring constant adaptation and evaluation.

The National Rural Electric Cooperative Association's Cooperative Research Network (CRN), through its groundbreaking nationwide CRN Smart Grid Demonstration Project, has created the "Guide to Developing a Risk Mitigation and Cyber Security Plan"—a set of online tools that will help co-ops strengthen their cyber security posture with a particular focus on smart grid technologies. This effort, heralded by the U.S. Department of Energy as a model for other utilities to follow (and endorsed by the head of grid security at IBM), marks the first approach to advancing cyber security at the distribution level and recognizes that electric co-ops have pioneered a broad range of solutions to keeping electricity flowing reliably and electric bills affordable.

Source: NRECA





# **Avoiding** Invasions

Properly sealed and insulated homes lead to comfort and lower energy bills.





Black marks on your insulation (L) means there is air infiltration, and your insulation is doing little more than catching dust. Create an air barrier for more comfort and lower energy bills. Sealing the cracks around recessed can lights (R) with caulk can greatly reduce air flow.

e all know the symptoms of a house that's leaking airdrafty halls in the winter lead to rooms that suffocate in summer. Then there's the most uncomfortable thing of all—high electric bills.

Talk to a local energy efficiency expert (some electric co-ops have their own) and one of the first things he or she will do is ask about insulation in your house. What type do you have? Is it in the attic, walls and floors? How about the basement or crawl space?

Leaky homes usually aren't properly insulated, but it takes more than a roll of the familiar pink fiberglass to stop air invasions.

#### Sealing the Envelope = Zipping **Your Coat**

"The biggest culprit to high energy bills remains an uninsulated, unsealed building envelope," remarks Art Thayer, energy efficiency programs director for the Michigan Electric Cooperative Association. "You can lower home energy bills—you just have to identify and stop air infiltration."

A "thermal building envelope" separates you from outside elements. It's like wearing a coat: If you zip it up, it's nice and warm, but if it hangs open, you're left freezing. By properly sealing the building envelope and creating air barriers, and then installing insulation (see p. 13), you keep hot air out in summer and cold air out in winter.

Sealing your home's thermal envelope involves applying caulk and foam to cracks and gaps and correctly installing insulation. If the insulation isn't installed well, it's not doing its job. Typically, incorrectly placed insulation leaves gaps between walls and

doors or windows, or where the ceiling meets the walls.

If there's a gap in the insulation, heat gets through, warns Peter Criscione, a manager with E Source, a partner with the Cooperative Research Network and division of the National Rural Electric Cooperative Association. E Source monitors, evaluates and applies technologies to help electric co-ops control costs, increase productivity, and enhance service to their members.

"It comes down to finding quality installers," Criscione stresses.

#### It's All About Air Infiltration

Understanding air infiltration is only half the battle. You have to find and stop the invaders.

"The first step involves putting a 'lid' on a house because heated air rises and will work its way out of the living space," Thayer relates.

To help determine how leaky your residence is, take advantage of an online energy audit by visiting michigan-energy.org or check to see if your electric co-op's website has this feature. Some co-ops also have an energy advisor you can consult, and who can determine if your home needs a blower-door test, one of the best ways of finding out how much air goes in and out of your residence every hour. If a thermal imaging camera is available, the energy auditor can pinpoint exactly where your home loses air. Typical culprits include the roof, around doors and windows, recessed can lights, attic hatches and pull-down stairs, and unfinished basements or crawl spaces.

Don't overlook the obvious—check where ceilings and floors meet the walls, too. Do you routinely have to clean a cobwebby corner?

That's a good indication of air infiltration because insects like fresh air.

"What you don't see could be costing you a lot," Thayer warns.

Caulk, weatherstripping and expanding spray foam should take care of the problem areas listed above. You can also make a box of rigid foam board for the attic pull-down

#### **Choosing Insulation**

Insulation won't do any good if you don't have proper air barriers—if your house jacket isn't zipped. While loose-fill fiberglass or fiberglass batts keep heat from moving in or out of your house, they do little to stop air flow. In fact, if every single joint and crack is not sealed with caulk or expanding foam, your fiberglass batt insulation does little more than catch dust.

Cellulose, made from recycled newspapers and blown-in, provides good attic insulation because it does more to stop air flow. Foam insulation, while the most expensive, also boasts the highest R-value—the effectiveness rating of insulation—and completely blocks air.

Your co-op or local energy professional can help determine the best type of insulation for your house and help you work out a payback period on your investment. You can also check EnergySavers.gov for more information about insulation, and use their zip code calculator to find out how much insulation you need for your location.

The bottom line: "If air is getting through, your energy bills will go up and you'll be less comfortable," Thayer concludes.

– Magen Howard

### Revealing **R-values**

ifferent types of insulation, ranked by R-value, exist to keep your home comfortable and electric bills affordable.

"R-value reflects the ability of insulation and other parts of your home, like windows, to resist the transfer of heat," says Art Thayer, energy efficiency programs director for the Michigan Electric Cooperative Association. "The rating depends on material, thickness and density, and a higher R-value means more effective insulation, of which multiple layers may be combined for a higher R-value."

#### **How Insulation Works**

Metals and liquids easily transfer heat, making them bad insulators. Air, however, does not conduct heat, making it a strong insulator when isolated in small pockets.

Just as fur keeps animals warm, insulation holds heat in (or out) of a building. Fur is a collection of hair—tiny hollow cylinders. Air fills the cylinders and spaces in-between.

The smaller the air space in between cylinders and the more spaces there are (longer hair equals more space), the greater the insulation. Building insulation works similarly—fiberglass insulation, for example, is a collection of hollow fiberglass cylinders.

Be careful to preserve the air—the bulk of your home's protection—when installing insulation. When an installer squeezes 3 inches of insulation into a 1-inch space, critical air pockets are eliminated. For this reason, actual insulating R-values may not always match the label. Insulation must be installed correctly to maximize protection and electric bill savings.

#### The Value of R-Values

The first layer of insulation pays for itself fastest, saving more than one-half of the energy dollars spent on heating or air conditioning. However, as more insulation is added, efficiency gains dwindle.

Boosting the R-value of a wall from 0 to R-10 cuts 90 percent of heat loss from one side of the wall to the other. This makes an immediate difference you can feel. Adding another layer of R-15 insulation (total R-value of 25) only cuts another 6 percent of heat transmission. Further increasing insulation thickness from R-25 to R-35 helps only by a little more than 1 percent.

In some regions with several months of very cold winds, however, increasing attic insulation values from R-25 to R-35 or even R-50 can be worth the investment over your home's life. But in most seasonal climates, replacing single-pane windows saves more energy than adding insulation to the attic, floors or walls (if R-25 to R-30 is common throughout the home).

A typical single-pane window has a 0.9 R-value, but a triple-glazed pane assembly with low-emissivity (low-E) insulated coatings rates 8.3. Based on an electricity cost of 10 cents per kilowatt-hour, a home with 18 single-pane windows (4 square feet each) could waste \$94.32 over three months (assuming 12 hours daily of a 40 degrees F indoor/outdoor temperature differential). A more efficient window would cost \$10.20 over the same time. After a year, savings from switching out the windows could surpass \$300.

Take advantage of an online energy audit at michigan-energy.org or find more insulation tips at energysavers.gov.

Kris Wendtland

### **Caulk Up** The Savings

ince controlling air leaks can extend the life of your home, and save energy and money, it's good to know you can seal a lot of leaks around a home's exterior with less than \$100 worth of caulk.

It's possible to seal openings up to onequarter inch between window frames and siding or around door frames. For larger gaps, add a backing material before caulking, or use a spray foam sealant instead.

Most types of outdoor caulk are sold in tubes that fit a caulking gun, but others come in aerosol cans and are best for filling gaps up to one-half inch around pipes and wires.

Caulk choices and prices vary, so be sure to read the labels and pick one that will adhere best to the materials you're sealing.

If you can, spend a little more for a premium caulk (can last 20-plus years, compared to a few years for those at a lower cost).

#### **Caulk Like a Pro**

■ As a rule of thumb, you'll probably use half a cartridge per window or door and up to six cartridges for foundation work.

- Most caulks pose no known health hazards after they're fully cured, but some highperformance compounds contain irritating or potentially toxic ingredients, so read the instructions carefully and take precautions.
- Before applying new caulk, remove old caulk or paint residue with a putty knife, stiff brush or special solvent.
- Make sure the work area is dry (best done when outdoor temps are above 45 degrees), so you won't seal in moisture that can cause swelling and cracking.
- If the gap you're sealing is too wide, use a special filler found at hardware stores. Fillers are not designed for exposure to weather, so you'll need to caulk or seal over it.
- Hold the caulking gun at a consistent angle (45 degrees) and apply in a straight, continuous stream, avoiding stops and starts, and making sure the caulk sticks to both sides of the crack or seam. Send caulk to the bottom of an opening to avoid bubbles.
- Release the caulking gun trigger before pulling it away to prevent applying too much. (One with an automatic trigger release makes it much easier.)
- Don't skimp. If the caulk shrinks, reapply to form a smooth bead that completely seals the crack. If caulk oozes out, use a putty knife to push it back in.

- Caulk takes time to dry or cure, which is described in two ways. Tack-free time tells how quickly the outer surface will skin over; total cure time is that required for it to be completely stable or reach the point where no more drying or shrinking will occur.
- Don't allow pets and small children to contact fresh caulk.

#### **Large Gaps Need Expanding Foam**

- Use the correct type of spray foam for the job. Polyurethane expandable spray foam works well around pipes and gaps around the foundation and for filling cracks that caulk can't handle. It comes in aerosol cans and takes a short time to cure. It's very sticky and attaches quickly, so be prepared to pick up messes fast. Also, this type of caulk expands with so much force that it can damage window and door frames, so use a water-based spray foam specifically designed for these areas.
- To seal gaps too wide for foam, use foilfaced bubble wrap. For really large holes, cut sections of rigid foam insulation to fit and then glue into place with expanding foam before covering the area with wood or another appropriate building material.

See more ways to seal your home and save at EnergySavers.gov or TogetherWeSave.com.

– Robert Dickleman

### **Natural Shoreline** Landscapes

any electric co-op members either live or have a cottage on the shores of an inland lake or stream, and there's some new technology and options for erosion control called natural shoreline landscapes. This form of shoreline maintenance is good for the environment and enhances accessibility to the water for recreational purposes and can even increase property values, says John Skubinna, of the Michigan Department of Environmental Quality (MDEQ) and facilitator for the Michigan Natural Shoreline Partnership (MNSP).

Natural shoreline landscapes are an alternative to the vertical break walls and riprap construction (foundation or sustaining wall of stones or concrete chunks thrown together in deep water, or similar material on an embankment slope) typically used by property owners to control erosion. Unfortunately, those methods can do more harm than good, says Jane Herbert, a contact person for MNSP, and senior water resource educator with the Greening Michigan Institute of MSU Extension.

"Break walls are very destructive to lakeside shorelines," Herbert explains. "There are a variety of things that can go wrong and a generous planting of wetland and aquatic native plants.

These techniques provide a more natural defense against the effects of wave and ice action on the shoreline. "Native plants provide a lot of amenities to the shoreline that were there before," says Herbert. "They have the rooting structure that holds these

shores together to withstand waves and ice."

Native plants can also adapt to shoreline water level fluctuations, provide habitat for organisms and animals, and help reduce pollution runoff to the lake from lawns and parking areas.

Recommended species for a natural shoreline landscape are listed on the MNSP website and can be acquired from local conservation districts and some plant suppliers. The Michigan Native Plant Producers Association also maintains a listing of companies that supply native plants and seeds. Herbert says it is best to use plants native to Michigan and

> the upper Midwest that are hardy to your zone. She discourages moving

native plants from one place to another, which in some cases is illegal.

A joint permit from the MDEQ/U.S. Army Corp of Engineers is required to build these landscapes, or for any shoreline alterations or additions. Permits for shoreline development, including break walls, can run up to \$2,000; however, to encourage homeowners to install bioengineered erosion control, a natural shoreline landscape permit is only \$50. For information on Joint Permits or to apply for one, visit michigan. gov/jointpermit.

The MNSP also educates and certifies contractors and provides all the information needed to construct and maintain shoreline landscapes. Starting this February, they'll offer certification classes for landscape and marine contractors to meet the needs of homeowners wishing to install them. The training is



During the field component of training for becoming a Certified National Shoreline Professional, participants lay erosion control fabric and set coir fiber logs as wave breaks to protect the newlyconstructed natural shoreline at Cadillac Lakefront Park.

offered in Grand Rapids on Feb. 21, 22, 23 and June 6; and in Manistique on March 21, 22, 23 and June 13. Training consists of three classroom days and one day for installation. Visit the MNSP website (or call Herbert at 269-671-2412, ext. 222) for details and to enroll. There's also a listing of Michigan Certified Natural Shoreline Professionals by county if you're looking for a firm qualified to install these landscapes.

In some ways, a natural shoreline landscape is no different than any other landscaping project that relies on native plants—therefore it isn't outside the realm of an experienced do-it-yourselfer. There are plenty of resources for learning what they're all about, and helpful guidebooks include MSU's "Natural Shoreline Landscapes on Michigan's Inland Lakes," and the MDEQ's "Natural Shoreline for Inland Lakes."

The MNSP's network of specially-trained natural shoreline educators will offer workshops statewide this year for homeowners, as well. One is already set for March 9, in Clarkston, and additional workshops will be posted to the website.

Aside from certifying contractors and educating property owners, the MNSP continues to research bioengineering technology and works to encourage state policies that promote natural shoreline management.

Neil Moran is the author of "North Country Gardening with Wildflowers: A Guide to Growing and Enjoying Native Plants in the Upper Great Lakes Region."



#### Visit mishorelinepartnership.org for information and other resources, including training and conferences.

when you alter the shoreline, and it can be difficult to correct."

The problem with traditional break walls is that you can alter the wave action of a lake in such a way that erosion is created on either side of them, which may just be your neighbor's shoreline. Wave energy bouncing off the wall also scours the lake bottom, which negatively impacts natural feeding and breeding grounds for aquatic wildlife. "In other words," says Herbert, they're not good for the ecology of the lake."

Natural shoreline landscapes instead seek to mimic what should naturally occur at the water's edge, says Skubinna. These landscapes can consist of everything from leaving wellenough alone (which doesn't require a permit) to encouraging the natural growth of native vegetation into barriers. These barriers are constructed using biodegradable materials

### Inside the Wolf's Den

eing in a wolf's den isn't a bad thing if it's the one built by Philip Wolf near Scottville, MI. The craftsman started his woodworking shop and store called Wolf's Den about 10 years ago and has worked with wood for 37 years.

"I knew when I was a kid that I was going to build furniture and live in a log cabin," he says. His log home now stands a few miles from the store, and because he enjoys working with wood so much, he says he feels like "I never went to work a day in my life."

Wolf says there's not enough time in the day to build things with wood, and he specializes in custom orders, especially kitchens and staircases. A staircase partially built inside a tree for a Lake Michigan home was one of his most unique projects, he says. "An open staircase is the most beautiful, and I enjoy doing them out of logs and trees—I've done a lot of rustic stairs."

He also builds bedroom and dining sets and other furniture with the help of only three employees, and claims that the wood in their furniture is very clean, finished, and "it's baby-butt smooth, even if it's made out of a tree root," he says proudly.

"Our woodworking shop differs from most in one aspect—the lack of [power] tools," Wolf says, noting that most of their creations are made by hand with old-fashioned tools. He likes the challenge, and adds, "I go into the woods, take a tree and build something out of it-from spiral staircases to one-of-akind log beds." Customers can tour the 23 acres nearby and choose their own tree and type of wood to be used for a custom project.

In the large Wolf's Den store, you'll also find coffee or end tables, plus other furniture and home decor items including unique mirrors, shelves, lighting, and even taxidermy.

Wolf does most of the design work himself and 80 percent of the store's items are Michigan-made, either by the Wolf team or one of over 35 other consignment artists whose differing work is displayed there. None of the artists whose pieces are for sale craft the same thing, and they come from all over the state, ranging from chainsaw carpenters to those who craft antler chandliers.

Even with the poor economy, Wolf says, "You wouldn't believe how many people come and say, 'I have never been in a store like this.



Above: Philip Wolf, owner of The Wolf's Den woodworking shop and store, offers unique, Michigan-made art from a variety of artists. He is pictured here with items he handcrafted. He builds with only Michigan wood, much of it cut from his own land. Right: A carved headboard and bed Wolf built for a customer.

The Wolf's Den is located near Scottville, at 880 W. U.S. Highway 10 and 31 (about 6 miles east of Ludington). Visit wolfsdenmichigan.com or call 231-757-7000.





It's so unique when you get so many artists together..." Artists seek him out to put their stuff in the store, which makes up about 50 percent of his business.

Currently, Wolf is crafting two kitchens, doing most of the work himself from start to finish, and has completed about 500 kitchens in his life...from design to building and installation.

Over 40 percent of his customers are from the Grand Rapids area, and the rest are from out-of-town or the state. A lot of people hear about it by word of mouth, and he's amazed that people drive a long way just to visit. And, even though business has been down a bit since 2008, he says, "It's very rewarding to be able to keep moving forward with the economy the way it is-especially with a store full of wants, not needs."

"On any given day of the week," he says, "you never know what you will find in our shop, and what signs of progress."

Tell us about your favorite, or a unique, Michigan-made product. Email czuker@ meca.coop or send to: Country Lines, 2859 W. Jolly Rd., Okemos, MI 48864. Be sure to share why you like it, or a unique story to go with it.

### **Got Stress? Get a Hobby!**

mericans are more stressed today than ever, thanks in part to a lingering financial crisis. From trying to make ends meet, to protecting relationships, to juggling deadlines, Americans are struggling to keep afloat, and it's taking a toll on their health and productivity.

We sometimes forget that kids are more stressed these days, too. In fact, a KidsHealth® KidsPoll showed that kids are stressed by school, peers and—yes, even their families.

The poll also shows that kids don't always deal with stress in healthy ways. That's why it's important for parents and grandparents to get involved, by reaching together for positive ways to cope. One powerful way is to pursue inexpensive activities that everyone can enjoy.

#### **Hobbies Can Heal**

Research shows that having a hobby you love can offer mental, physical and spiritual benefits to improve anyone's health and wellbeing. Collections, music, sports and other kid-friendly hobbies can distract kids from their worries and anxieties by making them focus on the here-and-now. Quiet hobbies like painting or model-building create space to think about things and be quiet for awhile.

Hobbies can also teach kids how to entertain themselves, while helping build self-esteem and a sense of competence. They can reinforce skills kids need at school and deliver many life-lessons, such as selfdiscipline, patience, creativity and the value of practice. Hobbies can also bring people together, leading to new friendships and stronger family ties.



#### Choosing the Best Hobbies

To tap into the learning and healing power of hobbies, you simply have to start.

- Watch for what interests your child. A hobby should be something that provides pleasure. It should never be a forced burden.
- **Count the cost.** Avoid starting an expensive collection or travel sport that your family budget can't sustain.
- Consider how much time to budget. Aim to hit a balance between family, school, chores and hobbies. Activities are important, but equally critical is a warm and well-connected family life.
- Choose age-appropriate hobbies. You don't want to set a child up for failure by tackling activities that are too difficult or dangerous for their age. If interest is high, however, you might try to find a way to ease in with a safer or simpler version of a highinterest hobby.
- Mix it up. Introduce a new hobby as a birthday or holiday gift. Sign your child up for guitar lessons. Register her for horseback riding. You might just prompt a new passion.

■ **Get involved.** Take an art class as a family. Study a foreign language and practice it at dinner (no English allowed!). Hike a trail. Enjoying some family fun that helps everyone meet a goal promotes healthy relationships.

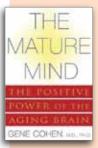
#### Watch For Pitfalls

As beneficial as hobbies are, there can be some downsides if parents aren't careful. Keep the focus on health and well-being by avoiding these common mistakes:

- Don't push the child to finish projects. Teach him to enjoy the process; that's when you push away anger, anxiety and everyday worries.
- Don't seek perfection. School assigns enough work that demands perfection. Don't let hobbies pile on the pressure.
- Don't compare your child to others. The point isn't to master a skill; the point is to find what makes her happy and relaxed.
- Don't worry what other people think. Teach your child to pursue a hobby for herself alone.
- Don't overdo it. Be careful that in your effort to give kids lots of opportunities, you don't end up depleting the budget-and everyone's emotional energy.

By guiding kids into appropriate hobbies, parents can encourage healthy coping skills and help prepare them to tackle whatever stresses they meet throughout their lives.

Linda Wacyk is a regular Country Lines freelance writer, educator, grandmother and content empty-nester.



#### **Hobbies Help Grandparents, Too!**

By enjoying hobbies together, families can share quality time, strengthen relationships, and improve brain health.

Gene Cohen, MD, author of "The Mature Mind: The Positive Power of the Aging Brain," says that trying new things and being creative—by singing in a choir, taking painting lessons or doing crossword puzzles or brain teasers—promotes brain flexibility and growth and even prompts our brains to re-wire, which may fend off dementia and help to maintain health. "When you challenge the brain, your brain cells sprout new

connections, called dendrites, and new contact points, called synapses, that improve brain communication," Cohen explains.



### Ice Fishing's 'Last Gasp' Nears

ce fishing is a major draw to anglers in February, but it might be called the "last gasp" time for this popular winter sport. When the calendar flips to March, the "safe ice" season thaws to a close in many of Michigan's waters, especially in those years when a warm weather shift arrives early.

Safe ice fishing requires daily inspection of the conditions every time you venture out. Ice that's solid and firm one day can suddenly become weak or thinner when the weather shifts, or where springs or currents eat the thickness away. Taking care to use a spud to check for safe ice each and every time is what stands between safety and possible tragedy.

There are two times when ice anglers are eager to get out on the ice to catch game fish like panfish, perch, walleye or pike. The first prime time for many is when the ice is first formed and safe enough to walk on. The second is when the ice season nears its end. The reason is that fish, like people, have preferred temperature comfort zones.

As first ice forms, fish begin to feed a bit more, as if they know lean times are at-hand. Their systems will adjust so that they need less food and feed less often. As waters begin to warm from penetrating sunlight and thawing as spring advances, their feeding urge begins to return. Thus, early-ice and last-ice times are when fish feed more often and are more likely to respond to baits offered.

A bit of physics is at play here. As water cools to 39 degrees F, it reaches a heavier specific gravity weight and sinks to the bottom. Hence, most fish seeking warmer comfort zones are found down near the bottom. The reverse happens in the heat of summer. As top waters heat, cooler water sinks to the bottom and again that's where fish will head during the heat of day. Remember where you found all the fish last summer—that's a good place to fish in

Panfish such as bluegills, crappies and sunfish, or yellow perch are the species that end up most often in ice angler creels. These species are the most widespread of all Michigan gamefish. (A reminder: If you want to fish for pike and walleye on inland waters, you'd best hurry up and get to it. The season will close after March 15, and not re-open until the last Saturday in April to protect spawning fish.)

If fish have a comfort zone, so do anglers, and many of them fish from shanties or 'coops' where it's sheltered and warm. But as March arrives, these shelters have to be off the ice by a certain date (see your DNR fishing guide for rules governing shanties by zone and dates. You will need a new fishing license April 1—and no 'fooling' with that.)

With March's thawing trend, it's also a good idea to keep your off-road vehicle or snowmobile—and especially your car—off the ice. Retrieving them from the waters can also be an expensive lesson that driving out on the ice at any time is risky. Some never learn this lesson. If your car goes through the ice, it is not only expensive to get it dragged back to land, but car insurance does



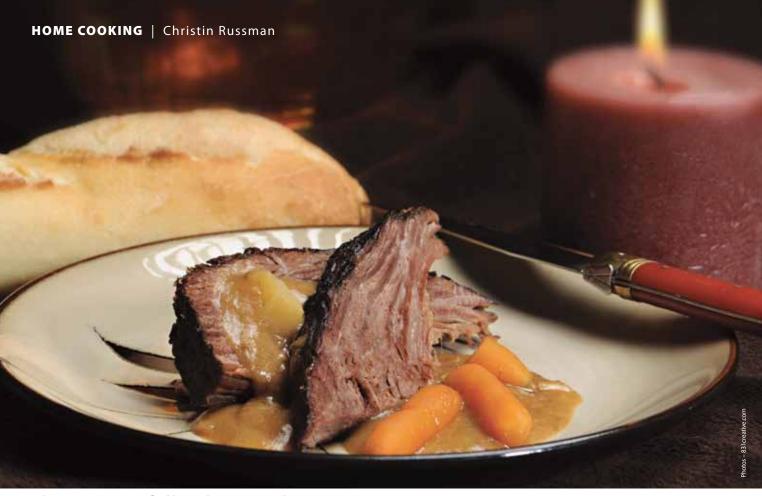
Sweet and delicious, the bluegill is the "bread and butter" fish for those who love ice fishing.

not cover such loss or repair bills and you will face even more serious fines or pollution penalties.

So, don't take a chance that you can "beat the break up time." Going though the ice, man or car, might evoke your own "last gasp.'

> Don Ingle is an avid outdoorsman and awardwinning outdoors writer that submits regularly for Country Lines.





This winter, fall in love with

## Slow Cookin'

Since the 1970s, slow cookers (aka "Crock Pots," which is really a brand name) have remained a popular appliance in many homes. There's almost nothing a slow cooker can't cook—from hearty roasts and stews... to even desserts. Add your ingredients and let dinner cook itself! Find hundreds more readersubmitted recipes at countrylines.com.

#### **Slow Cooker Roast** (pictured above)

1 lb. unpeeled baby redskin potatoes

1 lb. baby carrots

1 med. onion, diced

1 clove garlic, minced

Montreal Steak Seasoning, to taste

2½-3 lb. sirloin tip roast

1 10½-oz. can Campbell's Golden Mushroom soup, undiluted

1 c. cold water

1/3 c. flour

Soak potatoes overnight in cold water; cut into bite-size chunks. Place potatoes, carrots, onion and garlic in slow cooker; sprinkle with steak seasoning and stir. Lay roast on top. Spread soup over top of roast. Cook on low 10-12 hours or high 5-6 hours. Remove roast to cutting board. Mix water and flour

until smooth. Pour slowly over vegetables; stir. Slice roast; lay over vegetables. Cook for 20 minutes more.

Mary Ellen Sequin-Adomat, Traverse City

#### **Triple Chocolate Dessert**

1 box chocolate cake mix (pictured, p. 19)

1 8-oz. carton sour cream

1 3.3-oz. package instant chocolate pudding 1 c. chocolate chips

3/4 c. oil

4 eggs 1 c. water

Lightly grease slow cooker. Combine all ingredients. Pour into slow cooker. Cover and cook on low 6-8 hours or high 3-4 hours. Serve with whipped cream or vanilla ice cream.

Emma Jean Bowerman, Lake Isabella

#### Sausage and Beans

1/2 c. sliced carrots

1/2 c. sliced onions

2 c. frozen green beans

1 lb. smoked sausage, cut into 1/4-in. slices

1 28-oz. can baked beans

1/2 cup ketchup

1/3 c. brown sugar

1 T. cider vinegar

1 T. yellow mustard

1 T. chili powder

1 T. Worcestershire sauce

Layer carrots, onions, beans, sausage and baked beans in slow cooker. Combine ketchup, sugar, vinegar and spices. Pour over beans mixture and stir. Cover and cook on high 4 hours, or on low for 6 hours.

Mary Waterbury, Fenton

#### **Cheesy Hash Browns**

1 10½-oz. can cream of chicken soup

1 10½-oz. can cheese soup (nacho-flavored

for extra spice)

8 oz. cream cheese

1 c. Parmesan cheese

1 pt. sour cream

1 6-oz. can evaporated milk

2 lbs. frozen hash browns

1 6-oz. can fried onion rings

Combine soups, cheeses, sour cream and

milk in bowl. Microwave to soften. Add hash browns and combine items in slow cooker; stir. Cook on low for 6 hours or high 4 hours. When ready to serve, top with onion rings. Mary Waterbury, Fenton

#### **Crock Pot Meatballs**

1 lb. ground meat (beef, pork or combination)

11/4 c. bread crumbs

1/4 c. minced onions

1 beaten egg

salt, to taste

pepper, to taste

1 24-oz. jar spaghetti sauce

1 14-16-oz. can diced tomatoes

basil, to taste

garlic, to taste

oregano, to taste

Mix ground meat, bread crumbs, minced onions, egg, salt and pepper, and form into 30 balls. Stir together spaghetti sauce, diced tomatoes, basil, garlic and oregano to taste. Put half of sauce mixture into slow cooker. Add meatballs and the rest of sauce. Cover and cook 3-4 hours on high or 8-9 hours on low. Use as appetizers or serve on spaghetti noodles.

Mary Ellen Wynes, Mt. Pleasant

#### **World's Best Slow Cooker Barbecue Sauce**

3 c. ketchup

2 T. cider vinegar

2 T. vegetable oil

2 T. brown sugar

3 cloves minced garlic, or 1 t. garlic powder

4 T. Worcestershire sauce

1 t. dry mustard

1 t. cayenne pepper

3 T. dry tapioca granules (for thickening)

In a large bowl, mix all ingredients. Put meat of your choice in slow cooker. Pour the sauce over the meat. Cook on high 4-6 hours or on low 6-12 hours. Recipe may be doubled if the meat is large.

Donna Miller, Traverse City



#### **Oxtail Stew**

3 T. olive oil

31/2 lbs. beef oxtails, cut 11/2-in. thick

1 large onion

1 T. chopped garlic

1 c. carrots, cut 1½-in. thick

1 c. celery, cut 1½-in. thick

3 T. pine nuts

1 c. dry white wine (or substitute water)

1 28-oz. can diced tomatoes

3 T. fresh, chopped parsley

1 t. fresh, chopped rosemary

1 t. fresh, chopped sage

1 t. salt

2 t. fresh ground pepper

Place olive oil in skillet over medium-high heat. Add oxtails and brown on all sides. Add meat to slow cooker. Add the onion, garlic, carrots, celery and pine nuts to skillet with remaining oil from oxtails. Sauté 5 minutes. Add all from the skillet to the slow cooker, along with other remaining ingredients. Cook on medium heat, covered, from 3½ to 4 hours. Serve over egg noodles or mashed potatoes.

Eva Braganini, Mattawan

#### **Grandma Lewak's Beef Stew**

1 lb. cubed beef

2 lg. potatoes, cubed

2 lg. carrots, sliced

1 15-oz. can mixed green beans, peas, and corn, drained

2 32-oz. cans beef broth

3 beef bouillon cubes

2 bay leaves

1/4 t. parsley

1/4 t. black pepper

1/4 t. salt

1 15-oz. can diced tomatoes

1 large onion, diced

Add all ingredients in a slow cooker set on low. Cook 10 hours.

Luke Fee, Niles

#### **Crock Pot Chocolate Candy**

2 lbs. nuts of your choice 11 ozs. milk chocolate chips 1 4-oz. bar of Baker's German sweet chocolate, broken into pieces 24 ozs. White Almond Bark

#### **QUICK TIPS:**

■ A ceramic slow cooker can crack if exposed to abrupt temperature changes. Make sure to lay a towel down before placing it on a cold counter and let it cool before putting it in the fridge.

■ Throw in spices the last hour or two of cooking. They will lose flavor if cooked for an extended period of time.

Always use fully thawed meats to ensure thorough cooking.

Only fill the slow cooker one-half to two-thirds full. Any more, the food won't cook properly. Any less, the food will cook too fast.



Put nuts in bottom of slow cooker. Place Baker's chocolate over nuts. Spread chocolate chips on top. Place almond bark over chocolate chips. Set slow cooker to low and cover. Do not stir or open lid for 2 hours. After 2 hours, stir until nuts are covered. Spoon into bites and drop onto cookie sheet covered with wax paper. Cool. Makes 30 or more.

Phyllis Rigozzi, Bangor

#### **One-Pot Dinner**

1/2-1 lb. ground beef

1/2 lb. bacon, cut in small pieces

1 c. chopped onions

231-oz. cans pork and beans

1 16-oz. can kidney beans, drained

1 c. ketchup

1 16-oz. can butter beans, drained

1/4 c. brown sugar

1 T. liquid smoke

3 T. white vinegar

1 t. salt

pepper, to taste

Brown beef in skillet, drain off fat and put beef in slow cooker. Brown bacon and onions; drain fat. Add to slow cooker. Stir together, adding remaining ingredients. Cover and cook on low 5-9 hours or on high 3 hours.

Ellen Martin, Sandusky

**NEW THIS YEAR!** Contributors whose recipes we print in 2012 will be entered in a drawing. We'll draw one winner in December and pay their January 2013 electric bill (up to \$200) as a prize.

Thanks to all who sent in recipes! Upcoming: Please send in your **MEDITERRANEAN** recipes by Feb. 10, CREPE recipes by March 10 and RECIPES FOR KIDS by April 10. Mail to: Country Lines Recipes, 2859 W. Jolly Rd., Okemos, MI 48864; or email recipes@ countrylines.com.

### Smarter Technology **Improves Reliability**

ower line devices that help lineworkers more quickly locate outage-causing faults are being joined by smarter models that will further reduce outage times for Great Lakes Energy

Many older fault indicators that blink to indicate a fault is located down the line are in operation throughout GLE's electric distribution system. When lineworkers see the blinking device, they travel down the line to the next device. If it's also blinking, they travel on until they find one no longer blinking, which indicates they are near the fault location.

"We are installing the next generation of fault indicators on our lines, which do more than just blink," says Justin Chase, electrical

New models send an email to the cooperative's office when they sense a fault on the line. The message contains fault current data that can be used to more accurately determine where the downed tree or other source of the outage is located.

Dispatchers can send out a signal to the automated meters in the suspected outage area to get a better idea of who is out of power and where.

The result is that power can be restored faster when crews have more precise information on where to look for the trouble.

"Anytime we can get field data back into the office in an efficient manner, we're ahead of the game," Chase adds.

The new models provide more immediate data on blinks that will enable the co-op to resolve the issue more effectively. Blinks can occur for several reasons. Typical causes include tree branches brushing a line, animals touching power lines, lightning, failing power line equipment, and outages. With more field data available



Dispatcher Ken Stonehouse holds a device that is making his job a little easier. It's a fault indicator that, when attached to a power line, emails Great Lakes Energy dispatchers when an outage-causing fault occurs on the line.

on blinking events, the co-op can save time tracking down and correcting the problem.

Load current data provided by the newer fault indicators can be used to help determine what sections of the distribution system need to be upgraded so Great Lakes Energy members can continue to receive reliable service.

The new models are being gradually added to the distribution system each year. They are just one small part of the technology being used on GLE's distribution system that is helping to keep the lights on for GLE members. It's another important way we're looking out for you.

#### **Current Outage** Info on gtlakes.com

isit our website, gtlakes.com, and click on the "Storm Central" box on the home page to view any current power outages in any county and township across our service area.

For more specific information, you can log-in to your electric account online to view the power outage status of your account(s). Information available includes the time the power outage was reported, if a crew is aware of the outage, the estimated restoration time, and the number of other members without power related to your outage.

If you have not created a log-in, you will need to enroll your account(s). To log-in or register, click on the "Access My Account" box on our website and follow the instructions.

To report a power outage, please continue to use our automated outage reporting line, 800-678-0411.

### Co-op Membership **Benefits** Schools, Too

n addition to the many Great Lakes Energy members who saw capital credit refunds on their December bills, other members—including schools and businessesalso received refunds.

Allen Cumings (right), Tri County Area Schools

superintendent, accepts a nearly \$2,200 capital credit refund check from Great Lakes Energy's Thomas Mann. Refund amounts were based on electricity purchases made by members in 2010 and 1986.

Members of an electric co-op are also the owners and are entitled to a share of the margins earned by their consumer-owned business. Since 2003, Great Lakes Energy has issued \$25.2 million in capital credit refunds to members. That's the co-op difference.



### Children's Museum Expands With Help **From People Fund**

ife changed for Mary Kasprzyk in 1999. After the death of two family members and the birth of her third child, Mary knew that she needed to refocus her energies and work. With a passion for children and the community, she set out to develop a hands-on children's museum. As a mother, Mary knew firsthand that opportunities for small children to explore and play during the winter were limited in a small town. She saw the need for an educational museum that combined creative hands-on play, learning and fun. The idea for The Children's Museum of Fennville was born.

Three years passed while Mary, who volunteers full-time, and a dedicated group of community members and museum board members explored locations, received nonprofit status and were awarded grants to help fund the museum. Without a building to call home, the museum was first established with traveling exhibits for schools. This allowed it to build interest and operate while searching for a permanent location, which was found in 2005. A lifelong local resident generously bought and renovated a downtown building and another generous donation was received to help with start up costs.

Today, the museum is open to the public and school groups with a wide range of hands-on exhibits. The museum is built on the foundation that we learn through play. Exhibits allow children to touch, feel, explore and make noise.

"The exhibits aren't just for kids," explains Mary. "Adults come in and don't want to leave either because the exhibits allow us to explore our creativity and our inner-child."

The museum was awarded a Great Lakes Energy People Fund grant in 2010 for \$6,350 to build four new exhibits, which are all fully operational. Mary and her staff also use donated items to build displays, such as four old tables donated by the local United Way that were painted to look like trees.

"One day I noticed four desks on the side of the road, they just needed a little cleaning," explains Mary. "Now those desks are part of our exhibits and the children love to pretend they are at school or a job.



A child at the Children's Museum of Fennville plays with a learning exhibit purchased with a Great Lakes Energy People Fund grant.

"We try to re-use and refurbish as many items as we can," she says. "It's good for our budget and good for the environment."

The museum is a busy place, logging 10,000 visitors in its first two years of operation. Plans for expansion are being considered to meet the growing interest and needs of the community.

"It brings me joy to see children experience that 'a-ha' moment when they start to realize how something works and that look on their face when it all clicks," she adds. "That's why I do what I do."

Visit fennvillechildren.org or call 269-561-8494 for more information.

- Shari Ioles

The Great Lakes Energy People Fund awards grants to local nonprofit organizations and is funded solely by members who round-up their bill to the nearest dollar. Support your community for just a few pennies each month by enrolling in the People Fund today. Contact GLE for more information or visit gtlakes.com.

**Power In Numbers!** If every Great Lakes Energy member who participates in the People Fund got just one other person to join, it would easily double the amount of money available to help local food pantries, senior citizen centers, youth programs, and more.

The People Fund program works because there is power in numbers. A Great Lakes Energy member's average contribution of 50 cents a month or \$6 per year isn't much, but it adds up fast when thousands of members get involved.

Get involved and help the People Fund expand to meet the growing needs of Michigan residents, young and old. It all starts with asking just one person to contact us and we'll do the rest. You can also enroll online by visiting the "Your Community" section on gtlakes.com. Enrolled members have two chances each year to win a \$100 billing credit. Enroll today!



### Improving Reliability:

### **Five-Year Construction Work Plan**

olverine Power Cooperative updates its five-year construction work plan during the fall months of every year, identifying transmission, distribution and generation projects needed to serve members reliably and cost-effectively. Engineering and operations personnel from each member co-op provide significant input as the plan is drafted.

The current plan, approved by Wolverine's board of directors in October 2011, covers the years 2012 through 2016. It includes building new or upgrading 228 miles of line, two transmission substations and six distribution substations. Major upgrades at Wolverine's existing generating facilities are also addressed. The plan does not include future generating projects or acquisitions.

"The five-year work plan prioritizes projects on our system, and that may vary in a given year due to a specific need," says Danny Janway, vice president of engineering and operations for Wolverine. "For example, the plan could be adjusted from one year to the next to address load growth or new load in our members' service areas."

Line work continues to be the primary component of the plan in an effort to update Wolverine's aging transmission system. The system extends 1,600 miles across more than 35 counties in the Lower Peninsula, Transmission line projects are selected based on required industry planning standards and power flow modeling. Poles on the system that are, in some instances, more than 50 years old have served the co-op well and are targeted for replacement.

"We installed 34 miles of new line on our system in 2011 and replaced 26 miles of poles and insulators," Janway points out. "In 2012, we have 58 miles of transmission line upgrades or rebuilds planned."

Michigan's economic downturn hasn't affected Wolverine's need for planning and investing in its infrastructure. The co-op recorded a new all-time peak of 515 megawatts (MW) in July 2011, representing the combined electric demands of Cherryland Electric Cooperative, Great Lakes Energy, HomeWorks Tri-County Electric Coopera-



Wolverine lineworkers upgraded a section of the transmission system between Petoskey and Boyne City in February 2011 by installing new poles and wire.



Wolverine's new Hersey transmission substation, completed in April 2011.

tive and Presque Isle Electric & Gas Co-op. The previous all-time peak record of 490 MW was set in August 2007.

Midwest Energy Cooperative, Wolverine's newest member, currently owns its distribution system and will perform improvements on those facilities. Projects associated with Midwest are not included in the five-year

work plan.

"Since 2001, we have relied on the five-year plan to establish a framework for improving service to our members," Janway says. "The plan ties directly to our mission of providing outstanding service to members through the delivery of reliable power at a competitive price."

### **Protect Your Devices From Power Surges**

• We have many electronic gadgets in our house, and I am concerned about a voltage surge ruining them. Are there whole-house surge suppressors that will protect everything electric in our house?

 People often think that only electronic gadgets, such as computers and game consoles, are at risk from electrical surges. Actually, nearly every electric item in a house today has some sort of sensitive electronics that can be damaged by a surge. These include kitchen ranges, dishwashers, vacuum cleaners, air conditioners and fans.

A common cause of an electrical surge is lightning during a thunderstorm. The voltage and current spikes from just a single strike are enormous, and there are typically many in the duration of a storm. If your house and wiring experience a direct or very nearby hit by lightning, even a good surge suppressor will probably not be able to protect all elec-

When a storm is forecast and you hear thunder in the distance, unplug as many of your electronic devices as possible. This is actually a good idea anyway because many devices draw a lot of electricity even when you think they are turned off. However, just switching them off may not be adequate protection—a huge voltage surge can arc across an open switch and still fry the electronic components in an expensive device.

Many times, it's the repeated smaller electrical surges that damage electronic equipment. These can be generated by the switching on and off of inductive equipment (usually electric motors) in nearby businesses, or can even be generated by motors from your own vacuum cleaner, refrigerator compressor or clothes washer through your home's wiring.

It usually takes a long time for these numerous smaller surges to cause failures. One common result is that the wire and circuit board insulation slowly breaks down from each small surge and normal aging. Eventually, a wire may short-out or the electronic component begins to malfunction, and the device fails. These surges can also reduce the life of many types of lightbulbs.

There are several types of whole-house surge suppressors designed to protect all of the wiring circuits in a house. Some mount



on the circuit breaker panel indoors or are built into a circuit breaker. Others are designed to mount at the base of the electric meter. Many electric utility companies, including some electric co-ops, sell and install the units that work with your electric meters. The circuit breaker panel models are not difficult to install, but I recommend hiring an electrician to do it for you.

There are differences in the protection provided by various surge suppressors. A common design uses metal oxide varistors (MOV) to dissipate the surge before it flows through the house wiring.

The MOV surge suppressors work like a floodgate. At normal voltages, the gate is closed, preventing leaks. But if the voltage gets too high, the gate opens, allowing the excess damaging current to pass to ground, therefore protecting the equipment.

If the components (including MOVs) in a surge suppressor are too small, they can't handle the surge, and they fail. Using larger components that are rated to handle more Joules (a measure of energy) allows the suppressor to safely dissipate a larger surge. When comparing surge suppressors, a higher number is better for the total energy dissipation. Clamping voltage is what's required for the "floodgate" to open—for the MOV to conduct electricity. A lower number for this is usually better.

Even though the surge suppressor protected your electronics, a large surge may burn out the MOVs. Many models have an indicator light that shows if it is still functioning. Check it regularly, and especially after a thunderstorm. In some models, the light comes on only when the unit has been damaged by a surge and needs to be replaced.

It's also important to remember that many electronic devices, especially computers and

**James Dulley** is a nationally recognized mechanical engineer writing about home energy issues for the National Rural Electric Cooperative Association.



entertainment systems, have multiple connections including satellite, cable, phone or network, in addition to the power connection. Any of these can serve as a path for a surge to enter the device and cause damage. Surge suppression installed on the power line doesn't guarantee protection.

For the most sensitive devices, use pointof-use surge suppressors for extra protection. These are not expensive and make it convenient to completely switch off the power to save electricity when the device is not being used. When purchasing one of these surge suppressors, look for models that are tested for compliance with Underwriters Laboratories (UL) Standard 1449.

The following companies offer efficient surge suppressors: Eaton, 800-386-1911, eaton.com; Emerson Network Power, 800-288-6169, emersonnetworkpower.com; Intermatic, 800-391-4555, intermatic.com; and Meter-Treater, 800-638-3788, metertreater.com.

If you have a question for Jim, please email jdulley@countrylines.com, or mail to James Dulley, Michigan Country Lines, 2859 W. Jolly Rd., Okemos, MI 48864, and also let us know which electric co-op you receive service from.

#### Turn Your House Into A Power Plant. **Save Up To \$500.**



Just like trees, geothermal heating and cooling systems produce energy from the sun and the earth. Learn how you can cut heating bills by up to 70%, and generate a discount coupon worth up to \$500, at earthcomfort.com. This is on top of a 30% federal tax credit. Find a dealer and invest in lower heating bills now.

#### earthcomfort.com

Michigan Geothermal Energy Association

### **Healthy Savings Discounts with Co-op Connections Card**

Great Lakes Energy's Co-op Connections® Program is about to save you even more. The card that offers discounts at hundreds of local merchants and has saved Great Lakes Energy members thousands on prescriptions now offers members significant savings on lab and imaging services, chiropractic, dental, vision and hearing care.

The new Healthy Savings package is available at no cost to members who print paper cards from healthysavings. **coop** and show it at participating providers. This brand-new benefit is part of an already successful Co-op Connections card program that Great Lakes Energy has offered since 2005. Members should print and use the paper cards in place of their existing plastic cards to get the new health discounts. A sturdier paper card will be distributed in a future issue of Michigan Country Lines.

To locate providers that participate in the Healthy Savings program, call 800-800-7616 with your card handy or visit **healthysavings.coop**. Savings examples include 10 to 60 percent off eyeglasses, contact lenses and eye exams; 20 to 40 percent discounts on a range of dental care services; and 30 percent off chiropractic treatments.

Since many insurance plans do not include provisions for dental, hearing and vision care, this additional benefit is another way Great Lakes Energy is looking out for you. With the new Healthy Savings package, members get nocost access to five discounted health benefit areas: vision, dental, hearing, lab imaging and chiropractic care.

Detailed information on available savings and how to take advantage of the entire Healthy Savings package is posted at **healthysavings.coop**. If you do not have access to the internet, please call 888-485-2537, ext. 8957, for assistance.

This is not insurance nor is it intended to replace insurance. This discount card program contains a 30-day cancellation period. This plan provides discounts at certain health care providers for medical services. This plan does not make payments directly to the providers of medical services. The plan member is obligated to pay for all healthcare services but will receive a discount from those health care providers who have contracted with the discount plan organization. For a full list of disclosures, visit healthysavings.coop. Discount Medical Plan Organization: New Benefits, Ltd., Attn: Compliance Dept., P.O. Box 671309, Dallas, TX

### Introducing **NEW** Healthy Savings Discounts!



Print your new card today at healthysavings.coop or watch for it in a future issue of this magazine.

With the new Healthy Savings package, you receive no-cost access to the following discounted health benefits:



#### **Prescriptions**

By using your Co-op Connections® Card, you will receive a 10% to 85% discount on prescription drugs at over 60,000 national and regional pharmacy chain stores including CVS, Walgreens, Walmart, Target and many more.



#### **Dental Care**

Save 20% to 40% on most dental services including orthodontics, periodontics and endodontics.



#### Vision

Get 20% to 60% savings on eyewear.



#### **Hearing Aids**

Discount of 35% off hearing aid prices at 2,000+ Newport Audiology Center locations.



#### Lab Work and Imaging

Savings of 10% to 60% off usual charges for MRI, CT and other lab procedures.



#### Chiropractic

Take advantage of 30% to 50% savings on diagnostic services and treatments.

### Safety Tips for **Installing Insulation**

f you're planning to tackle installing home insulation on your own, safety should be given high priority. The following tips from the North American Insulation Manufacturers Association can help.

**Wear appropriate clothing.** To reduce the chances of skin irritation, wear a head cover, gloves and loose-fitting clothing that covers your arms and legs.

Wear proper protective equipment. Safety glasses and respiratory protection may be necessary, depending on your work environment. The U.S. Occupational Health and Safety Association offers guidelines in its Respiratory Protection Standard that may be helpful (osha.gov/SLTC/respiratoryprotection).

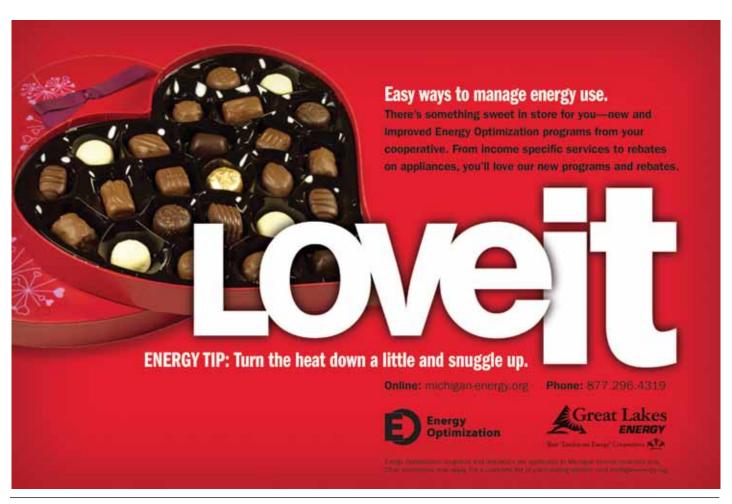
Take care if fibers get on your skin or eyes. If insulation fibers collect on your skin, don't rub and scratch or remove with compressed air. Instead, lay tape, adhesive-side down, and then remove it gently, so the fibers are pulled from the skin. If fibers get in your eyes, never rub them—flush with water or eyewash solution. Contact your doctor if you have continued irritation.

► **Keep dust to a minimum.** Leave the materials in packaging for as long as possible. Use tools that create the least amount of dust, and power tools should have dust-collection devices. Put scrap materials in the trash and don't let equipment wander too far from the work site.



It's important to keep a safe working environment when installing insulation yourself—especially when your workspace adjoins living space, such as in an attic.

▶ Maintain adequate ventilation. Determine whether your work site needs a dust-collection system. Also, exhausted air containing fibers should be filtered before being recirculated into inside workspaces. Finally, ventilation systems used to capture fibers should be checked regularly.



### **An Apple a Day**

love apples. I don't remember my first one, but my mother says I always liked them. I like to think I got my first taste in the big garden of my grandparents, with whom my mother and I lived while my dad was fighting in the Pacific during WW II.

Maybe our early tastes of certain foods imprint a lifelong desire for them. (That may also explain a weakness for chocolate malts.) I'll always remember the time I gave our son Dan his first taste of a juicy plum when he was about 6 months old. I've never seen a more voracious eater. He grabbed my hand and mashed that plum into his toothless mouth as if possessed. He remains a big fruit eater.

My favorite apple came from a tree in the backyard of my childhood friend, Tommy Allen, who lived a block away from our house in Ironwood. The apples were yellow when ripe, but slightly green, tart and crunchy when we picked and ate them in late summer until we were full—or sick. Those apples were organic before anyone knew what organic meant. There were no pesticides to worry about, only worms, and we ate around the holes they made.

The apples were White Transparents, so named for the way the skin allowed you to see through to the flesh. The trees came from Russia in the late 1800s and the apples came to be known as Yellow Transparents here. They weren't quite as good when they were fully ripe—too soft and slightly mealy, but they made great applesauce. Some trees still exist in the U.S. and you might find the apples at a farm market, but you won't find them in your grocery store. If you have a tree, treasure it.

I figure I've averaged an apple a day over my life. Although they didn't keep the doctor away, I'm sure I'm better off for having eaten them. Their health benefits are widely known. They come in their own wrapper and are absolutely biodegradable.

What's not to like?

Well, for one thing the seeds contain arsenic, which isn't a problem if you don't eat the seeds. But some apple juice makers were apparently grinding the whole apple to make juice, so arsenic tainted some

brands. You also don't want to feed whole apples to your dogs, because the arsenic in the seeds can kill them if they get enough.

Then there's wax, used in tiny amounts to provide a microscopic coating around the apple. I used to worry about it, and it's not easy to wash off. But it turns out the wax replaces the natural coating that is washed off, along with any pesticides, in processing. Coatings used on fruits and vegetables must meet U.S. Food and Drug

For two months we can get a continuous infusion of fresh apple goodness, and that's a good thing. Our crop ranks fourth in the nation, supports nearly 1,000 family farms, and generates over \$700 million worth of business in the state. A big boost to sales came last year when McDonald's decided to add fresh apple slices to its Happy Meals.

Recent studies have shown that, unlike many fruits and vegetables, the nutritional



#### Real apples are more nutritious than the ones that hold all your music.

Administration regulations for safety, and waxed fruit is required to carry a label.

I keep looking for the perfect eating apple. We've been getting Empires, a cross between Red Delicious and MacIntosh. But the relatively new Honeycrisp, a cross made at the University of Minnesota between Macoun and Honeygold varieties, is fast becoming a favorite. Right now, there are not enough mature trees to produce Honeycrisps, so supplies are limited and prices are high.

Maybe the Honeycrisp owes its goodness to its complexity. The Golden Delicious apple is in its 'family tree' and that apple's genome (decoded by an Italian-led consortium in 2010) was found to have 57,000 genes—the highest number of any plant genome.

Back in the '50s, apples seemed to capture a whole summer. All the sun and rain of the Upper Peninsula's short summers were distilled in those golden orbs. When we finished eating the last one, summer

Now we get apples throughout the year, in dozens of varieties grown all over the Western Hemisphere and even invented in university laboratories. In Michigan alone, 20 varieties are grown commercially, from Paula Reds, available around Aug. 20, to Braeburns, available Oct. 25.

benefits of apples remain relatively stable as long as 200 days after harvest. Those benefits are substantial, as apples land on most top 10 nutritious food lists, especially for the insoluble fiber pectin and vitamin C they contain.

So, why do apples taste so old at this time of year? They seem tougher, less crisp, and tasteless earlier than they did in the past. We used to know in spring that we were eating last year's apples, but now it seems we're eating apples from the year before. These are still better than canned apples. Anyone who likes those bland, 'homemade' apple pies made from canned apples and served in too many restaurants has never eaten a pie made with fresh apples.

For many years, there was a puzzling sign on the highway near Mount Pleasant for a market in northern Michigan. It read, "Fresh fruit, in and out of season." If only that were so.

Mike Buda is editor emeritus of Country Lines. Email Mike at mbuda@ countrylines.com or comment on his columns at countrylines.com/column/ ramblings











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ext. 8174; teentrips@glenergy.com.