



## September Dates:

- 3, Uncle Birthday
- 6, Labor Day
- 11, Patriot Day
- 12, National Grandparents Day
- 22, First Day of Autumn
- 25, Native American Day
- 26, Good Neighbor Day

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## Thought for the month:

Keep curtains closed.  
This prevents heat loss in the  
Winter and heat gain  
In the summer.

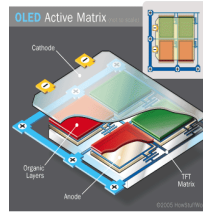
# OLEDs... New Technology



What if you could put wallpaper in your room that would double as a lighting fixture? Think that is impossible...think again. GE has come up with technology that could lead to products just like this.

What exactly is OLED? Good question. It stands for **Organic Light Emitting Diodes**. It is made up of paper thin organic material known as polymer plastic that illuminate when a small electric charge is applied to the material. It is already being used in some cell phones and TVs.

The industry is working right now with physical chemists to invent and design new products



[http://www.google.com/imgres?imgurl=http://itfanat.com/images2/oled-market-grew-last-year-by-35-1.gif&imgrefurl=http://itfanat.com/7016.html&h=340&w=400&sz=32&tbid=OhkueGt190jsM:&tbid=105&tbid=124&prev=/Images%3Fq%3D OLED%2Btechnology%2Bimages&zoom=1&usq=\\_\\_WETVfuntzfd0xh-qAAjGog-TZik&ca=X&ei=9X6TielDS&oiFw7Gd&ved=OC88Q9QEWAA](http://www.google.com/imgres?imgurl=http://itfanat.com/images2/oled-market-grew-last-year-by-35-1.gif&imgrefurl=http://itfanat.com/7016.html&h=340&w=400&sz=32&tbid=OhkueGt190jsM:&tbid=105&tbid=124&prev=/Images%3Fq%3D OLED%2Btechnology%2Bimages&zoom=1&usq=__WETVfuntzfd0xh-qAAjGog-TZik&ca=X&ei=9X6TielDS&oiFw7Gd&ved=OC88Q9QEWAA)

using this organic electronic technology and printing processes.

A simple piece of plastic could be transformed into use in many different new products (i.e. gigantic TV, wallpaper lighting, solar panel, etc.).

This technology could lead in many directions; especially in the specialty ambient lighting arenas. Flexible lighting sources

may be helpful and perhaps necessary in some areas of a room or building. This new technology is mercury free— for the environmentally conscious individuals, low cost commercial production by the roll is being developed, flexible usage for artistic design, light weight usage, uniform level of lighting usage, and the capability of using a dimming application for usage. Sign applications for businesses would be another use. Sensors and solar technology is the next step for the hardworking staff at GE, whose motto is “imagination at work.”

What will they think of next! For more on this topic, go to <http://www.youtube.com/watch?v=WDxFDcz0PMM> or [http://www.youtube.com/watch?v=\\_Qyodldq\\_0l&feature=related](http://www.youtube.com/watch?v=_Qyodldq_0l&feature=related).



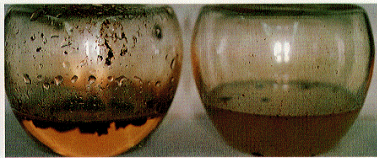
## Federal Pacific Panels

In electrical circles, wire is considered stupid. That sounds harsh for the great benefit that electricity is to our daily living. But wire will allow current to flow through it until it melts or burns up. That's why breakers and fuses are crucial to the safety of our homes. They will break the connection if too much current for that particular wire is created. That is the main reason why it is very important to have properly sized fuses and breakers on each circuit. Sometimes pennies are inserted behind a fuse that continues to blow. This is a disaster waiting to happen, as it will continue to conduct electricity even if the fuse blows until the wire burns. FPE breakers are unique in their design in the way that

they attach to the back of the main panel, or bus bar. The design of the slots in these bars in FPE panels is shaped like an “E” or an “F”. This, in theory works really well for attaching specific types of breakers. ( If your eyes aren't glazed over yet, keep reading, they soon will be). Unfortunately, some electricians, and ambitious DIY's would alter the back prongs of the breakers to be able to cram more into a box. This saved money and time—and also provided a very poor connection to the bus bar. Whenever a wire or breaker is loose, it creates more resistance, which creates heat, which can melt or scorch the wire, breaker, or your house. So part of the problem with these breakers, was simply



the poor installation practices and opportunities they provided. But let us not put all blame on the installers. In tests done by the CPSC before their money ran out, up to 25% of FPE breakers would fail to trip when the circuit was overloaded in an attempt to simulate normal living conditions. If the breaker did trip, sometimes it would not reset. In addition, many of these breakers would become loose over time and simply fail to stay in the place they were intended to.



Before adding the bacteria  
微生物添加前

7 days later  
7日後

Courtesy of: <http://www.google.com/imgres?imgurl=http://www.jamstec.go.jp/jamstec/bio2.gif&imgrefurl=http://www.jamstec>

# Creation Minute



According to articles found on the internet and an article written by Brian Thomas, M.S., there are oil-eating bacteria in the ocean that have aided in the clean-up of oil from the recent BP spill. Mr. Thomas writes, "The oil spill in the Gulf of Mexico has spawned concerns regarding the long-term negative impact on the area's ecology, and especially on local fisheries. These worries are based on the assumption that the oil would persist and, like an infamous pesticide from the 1950s, carry deadly effects up the food chain for many years. But a recent study

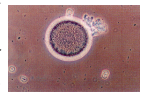
showed that the oil is actually disappearing rather quickly.

The cause? Oil-eating bacteria, researchers found. They're important because "we'd have oceans covered with oil slicks if they weren't degrading,"<sup>1</sup> according to Alan Mearns, a NOAA marine ecologist who commented for ScienceNOW. Forty to 50 million gallons a year naturally seep into the Gulf of Mexico, even before the Deep Horizon offshore rig disaster on April 20, 2010 added millions more, so these bacteria have been at work breaking down oil for a long time.

Microbiologists sampled a Gulf oil plume and found an

increased concentration of oil-eating bacteria inside it.<sup>2</sup> While the bacteria are capable of rapidly multiplying to quickly clean up even vast amounts of oil, their proliferation is limited by factors, such as oxygen and oil availability, at the microscopic level. But the team found that dispersants used during clean-up had broken up the oil and accelerated bacterial degradation. Also, oxygen levels inside the plume were sufficient for bacterial growth.

Study lead author Terry Hazen of the Lawrence Berkeley National Laboratory told *The Washington Post*, "We've gone out to the sites, and we don't find any oil, but we do find the bacteria."<sup>3</sup> The research results "demonstrate faster-than-expected hydrocarbon biodegradation rates at 5°C."<sup>2</sup> For this reason, scientists are optimistic that



'he oil will be gone much sooner than people thought before.'<sup>1</sup> But those people had not taken into account the presence, let alone the effectiveness, of oil-eating bacteria that were made for specific purposes--to fill the earth by pioneering into its varied and changing environments, and to maintain optimal living conditions on the planet. The bacteria were found to be fulfilling these functions rather well. *The Washington Post* stated that the bacteria 'not only outcompeted fellow microbes, they each ramped up their own internal metabolic machinery to digest the oil as efficiently as possible.'<sup>3</sup>

The Creator and Sustainer of all life deserves credit for providing these bacteria that clean ocean water, rapidly adapt to process new oil sources, moderate oil spills, and maintain just the right conditions for life.<sup>4</sup>

To learn more: Visit [The Creation Museum](http://www.creationmuseum.org) for more information about Creation Science. [www.creationmuseum.org](http://www.creationmuseum.org)

## Pets and Second-hand Smoke

Many people think of their dog or cat as a member of the family. The pet is cuddled, cared for and given birthday and Christmas presents.

Some pets, however, live with a danger the family doesn't realize. Second-hand smoke can cause emphysema or lung cancer in dogs. According to the ASPCA, breath-

ing smoke can also cause malignant lymphoma in cats.

A Web-based study showed that 48 percent of pet owners were smokers or lived with smokers. Veterinarians want people to know the facts about pets' exposure to toxins in cigarette smoke.

*"Faith is like electricity. You can't see it, but you can see the light."*  
~unknown

## "Faith" An Amazing Dog!



Here is an amazing story about a dog and woman's love for animals. This dog was born on Christmas Eve of 2002. He was

born with 2 legs and could not walk when he was born. It was said that his first owner did not think that he could survive and he was thinking of 'putting him to sleep'. Miraculously, Jude Stringfellow met him and wanted to take care of him. She became de-

termined to teach and train this little dog to walk by himself. So

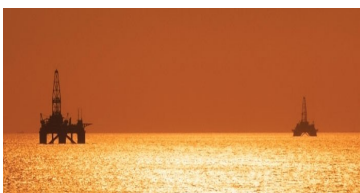


she named him 'Faith'.

Faith's story is being published in a book entitled, With A Little

Faith. This story is an inspiration and a reminder In life that "there are always undesirable things, so in order to feel better you just need to look at life from another direction ."

Picture courtesy of : <http://www.icr.org/article/5593.jpg>  
Read the article from the ICR institute and reprinted above.



THOUGHTS FROM  
THE CRAWLSPACE

# Financial Freedom?

Your retirement plan might be affected because of the slow economy, but there are still things you can do to make that money last for a lifetime.

\* Pay off your debts and avoid taking on new ones. If your debt level is unpayable, visit the Association of Independent Consumer Credit Counseling at [www.aicca.org](http://www.aicca.org) or call 800-703-8787.

\* Don't pay off debts with money from an IRA or 401(k). This money is protected from bankruptcy.

\* Know what your expenses and income will be when you retire. If you start living on your retirement budget now, you will have less chance of running out of money.

\* Increase your savings even if it means changing your lifestyle.

\* Invest in low-cost stock index funds so you have greater returns on your investments. Stay away from individual stocks.

\* Avoid taking Social Security until age 70. Your check will be 76 percent larger than if you take it at age 62.

\* Work a little longer, especially if you have health insurance on your present job. If you must retire, just find a new job that offer health insurance, such as Costco, Home Depot, or Walmart, which have benefits for part-timers.

\* Put off taking a reverse mortgage. They are available at age 62, but wait until your 70s or 80s.

\* Buy an immediate fixed annuity. Payouts are based on your investment, your age and the type of benefit you want, says financial advisor Jane Bryant Quinn.

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## September Outdoor Activities

September is full of local activities for the whole family:

**28th Annual Bonneyville Celebration:** Enjoy a weekend filled with friends, food and good old family entertainment, at the Bonneyville Celebration, Saturday and Sunday, September 11& 12. The mill valley will be filled with a variety of craftsmen, food, entertainment and antique agricultural equipment displays. The event takes place from 9:00 a.m. - 5:00 p.m. at the historic Bonneyville Mill County Park.

**Buffalo Ranch Extravaganza**

On September 4th @ 9 AM, join us on a unique excursion to Cook's Bison Ranch of LaGrange County as we discover the living history right here in our own backyards. You haven't lived until you have petted a buffalo, eaten a buffalo burger (included in price) and seen over one hundred LIVE buffalo. We will leave from Ox Bow Haus Shelter in Ox Bow County Park at 9:00am. Seating in the van is available for the first 12 people. Cost is \$15 per person. Please register by calling 574-535-6458 before 4:00pm on Friday, September 3.

**Nature Drawing Series:** On Septem-

ber 9, 16, 23, join us for our art series at 9:30 AM in the Baldwin School House at Bonneyville Mill.

**Bristol Hills Storytelling Festival :**

Join us Friday, September 10 @ 5:30pm to hear some of the best storytellers in the nation delight the audience as they spin tales, share fables and swap yarns. The festival is truly an adventure of words for all teens and adults, alike. Swapping grounds will be open at 5:30pm with a featured storyteller at 7:00pm. Admission is \$10. For more information, visit [www.bristolhills.net](http://www.bristolhills.net)

For more information: [www.elkhartcountyparks.org/](http://www.elkhartcountyparks.org/)

## Spices and Big Health Benefits

Spices have the highest antioxidant activity of all food groups including fresh fruit and vegetables. Volume-wise, of course, you will eat far more fruits and vegetables than spices, but their concentrated powers are worth considering.

Oregano is one of the nutritional heroes. It has antibacterial and anti-inflammatory properties and is said

to help prevent various types of cancer. Use it in Italian dishes and sauces, salad dressings and soups.

Other spices that have powerful anticancer powers are anise, basil, black pepper, caraway, clove, fennel, garlic, ginger, green tea, mustard, rosemary and turmeric.



*"You block your dream when you allow your fear to grow bigger than your faith."*

~Mary Morrissey



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- ⇒ Visual Mold Inspections

*Serving Humanity one inspection at a time!*



### Federal Pacific Panels (continued from page 1)

These issues are obviously major fire hazards and should be treated as such.

In addition to these issues, there are 5 main design issues with the FPE equipment. I won't go into much detail, but they are: 1. Lack of wire bending space; this creates extra stress on the main service wires, as they have a large diameter and need ample room to bend into the box and main lugs; 2. Lack of gutter space. This creates problems along the sides when large amounts of wire are crammed into a small space. Screws for the panel cover can easily drive into a wire if there is not room to get them out of the way; 3. Spring-mounted bus bars-which could adjust to various depths depending on the type of box installation. This sometimes created situations in which the panel cover would be almost

spring loaded when the screws were taken out; 4. Breakers that are "on" when "down"-think of a light switch that you generally consider on when in the up position; 5. Split bus service equipment- this attempted to split the two legs of service (one into the 15 and 20 amp circuits, and the other to the heavier circuits).

Most of these problems led to new codes that make electrical equipment safer today. The NEC (National Electrical Code) made big changes around 1984 in response to these issues. That doesn't help you much today if one of these boxes is in your home. If you suspect you have one, I recommend having it checked out by an electrician, and most likely replaced. Sometimes the worst problems in these panels can't be seen without removing the breakers, and I would leave that to the professionals.



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Jamie is a really nice guy and I really felt comfortable talking with him. In fact, I was impressed by the way he explained things so that I would understand and he didn't even treat me as if I were a stupid female.

Thanks!  
*Reatha Weaver*